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CURRENT APPLICATION NUMBER: US/09/128, CURRENT FILING DATE: 1998-08-03

EARLIER APPLICATION NUMBER: US 60/091, EARLIER FILING DATE: 1998-07-02

EARLIER APPLICATION NUMBER: US 60/054, EARLIER FILING DATE: 1997-08-04

NUMBER OF SEQ ID NOS: 18
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Best Local Similarity 98.0%;
Matches 400; Conservative
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US-09-128-155-10

Sequence 10, Application US/09128155 Patent No. 6117654

RESULT

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                APPLICANT: Pan, Yang

TITLE OF INVENTION: NOVEL MOLECULES OF TANGO

FILE REFERENCE: 09404/052001

CURRENT APPLICATION NUMBER: US/09/128,155

CURRENT FILING DATE: 1998-08-03

EARLIER APPLICATION NUMBER: US 60/091,650

EARLIER FILING DATE: 1998-07-02

EARLIER APPLICATION NUMBER: US 60/054,646

EARLIER FILING DATE: 1997-08-04

NUMBER OF SEQ ID NOS: 18
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Best Local
Matches 39
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SOFTWARE:
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TITLE OF INVENTION: NOVEL MO
TITLE OF INVENTION: AND USES
FILE REFERENCE: 09404/052001
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IT FILING DATE: 1998-08-03
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IR FILING DATE: 1997-08-04
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50 PKVKNLNPKKFSIHDQDHK 84 LLGVSKGEFCLYCDKDKGQ	SULT 1 -09-293-625-2 Sequence 2, Application US/0929 Patent No. 6342371 GENERAL INFORMATION: APPLICANT: Young, Peter R. APPLICANT: Young, Peter R. APPLICANT: McDonnell, Peter C TITLE OF INVENTION: INTERLEUKI FILE REFERENCE: GP-70607 CURRENT APPLICATION NUMBER: US CURRENT FILING DATE: 1999-04-1 NUMBER OF SEQ ID NOS: 2 SOFTWARE: Patentin Ver. 2.0 SEQ ID NO 2 LENGTH: 218 TYPE: PRT ORGANISM: Homo sapiens -09-293-625-2 Query Match Best Local Similarity 100.0%; Matches 169; Conservative 24 PKVKNLNPKKFSIHDQDHKVLVL 1111111111111111111111111111111111	8 155.5 15.3 169 4 9 155.5 15.3 169 4 0 155.5 15.3 169 4 1 155.5 15.3 200 4 2 155.5 15.3 200 4 1 151.5 14.9 177 3 151.5 14.9 177 4 7 151.5 14.9 177 4 8 150.5 14.8 180 1 9 150.5 14.8 180 2 1 150.5 14.8 180 2 1 149.5 14.7 153 3 149.5 14.7 153 4 149.5 14.7 153 4 149.5 14.7 153 4
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RESULT 2
US-09-128-155-7
US-09-128-155-7

Sequence 7, Application US/09128155

Patent No. 6117654

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT APPLICATION NUMBER: US 60/091,650
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER APPLICATION NUMBER: US 60/091,650

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RESULT 4
US-09-128-155-11
; Sequence 11, Applicat:
; Patent No. 6117654
; GENERAL INFORMATION:
; APPLICANT: Pan, Yang
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GENERAL INFORMATION:
APPLICANT: Pan, Yang

TITLE OF INVENTION: NOVEL MOLECULES OF TANGO

TITLE OF INVENTION: NOVEL MOLECULES

TITLE OF INVENTION: NOVEL MOLECULES

TOTAL OF TANGO

TOTAL OF 
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LENGTH: 178
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TYPE: PRT
ORGANISM: Homo sapiens
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Sequence 9, Patent No.
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APPLICANT: Pan, Yang

TITLE OF INVENTION: NOVEL MOLECULES OF TANGO

TITLE OF INVENTION: AND USES THEREOF

FILE REFERENCE: 09404/052001

CURRENT APPLICATION NUMBER: US/09/128,155

CURRENT FILING DATE: 1998-08-03

EARLIER APPLICATION NUMBER: US 60/091,650

EARLIER APPLICATION NUMBER: US 60/094,646

EARLIER APPLICATION NUMBER: US 60/054,646

EARLIER FILING DATE: 1997-08-04

NUMBER OF SEQ ID NOS: 18

SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                ; TYPE: PRT; ORGANISM: Homo US-09-128-155-5
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US-09-128-155-5
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LENGTH: 136
TYPE: PRT
ORGANISM: Homo:
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FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-02
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Application 6117654

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ICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVS	EFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFY 	KKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASS 	88.0%; Score 895; DB 4; Lengt larity 100.0%; Pred. No. 4.3e-98; Conservative 0; Mismatches 0; Ind	5-2 , Application US/09293625 , Application US/09293625 , 6342371 FORMATION: : Young, Peter R. : Young, Peter R. : McDonnell, Peter C INVENTION: INTERLEUKIN-1 HOMOLOGUE, IL-1H4 RENCE: GP-70607 PPLICATION NUMBER: US/09/293,625 ILING DATE: 1999-04-16 SEQ ID NOS: 2 Patentin Ver. 2.0 218 T : Homo sapiens 5-2	ALIGNMENTS	3 C H H H H W W W W W W W W W W W W W W W	5.3 169 4 US-09-316-081-4 5.3 169 4 US-09-578-458-4 5.3 169 4 US-09-522-964A- 5.3 200 4 US-09-522-964A- 5.3 200 4 US-09-522-964A- 4.9 177 3 US-09-000-630C-
D 192 D 218	RAQVGSWNMLES 143	LSSASAEKGSPI 83 SSASAEKGSPI 109	h 218; els 0; Gaps			quence 11 quence 11 quence 11 quence 11 quence 13 quence 13 quence 13 quence 2, quence 2, quence 4, quence 10	equence 4, equence 4, equence 4, equence 13 equence 13
	ICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD 1	EFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLES 1	PKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPI 8	88.0%; Score 895; DB 4; Length 218; arity 100.0%; Pred. No. 4.3e-98; onservative 0; Mismatches 0; Indels 0; Gap KKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPI 8	Ilication US/09293625 71 71 72 71 73 74 74 75 77 77 77 77 77 77 77	ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ATION ATION US/09293625 ATION INTERLEUKIN-1 HOMOLOGUE, IL-1H4 GP-70607 ATION NUMBER: US/09/293,625 DATE: 1999-04-16 DATE: 1999-04-16 B8.0%; Score 895; DB 4; Length 218; Larity 100.0%; Pred. No. 4.3e-98; Conservative 0; Mismatches 0; Indels 0; Gap PRKFSIHDQDHKVLVLDSGNLIAVPDKNVIRPEIFFALASSLSSASAEKGSPI 1 PRKFSIHDQDHKVLVLDSGNLIAVPDKNVIRPEIFFALASSLSSASAEKGSPI 1 EFFCLYCDKDKGGSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLES 1 LIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	14.9 177 3 US-08-662-730C-22 Sequence 14.4.9 177 4 US-09-348-942-11 Sequence 11.4.9 177 4 US-09-348-942-11 Sequence 11.4.9 177 4 US-09-457-626-11 Sequence 11.4.9 180 1 US-08-457-626-11 Sequence 11.4.8 180 2 US-08-910-733-13 Sequence 13.4.8 180 2 US-08-910-733-13 Sequence 13.4.8 180 2 US-08-910-733-13 Sequence 13.4.8 180 2 US-08-910-733-14 Sequence 13.4.7 153 4 US-09-131-247-2 Sequence 2.4.7 153 4 US-09-131-247-4 Sequence 2.4.7 153 4 US-09-131-247-4 Sequence 2.7 156 1 US-08-476-860-10 Sequence 2.7 157 156 1 US-08-476-860-10 Sequence 2.7 156 1 US-08-

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Sequence - Patent No. 611/bu-
Patent No. 611/bu-
GENERAL INFORMATION:
APPLICANT: Pan, Yang
TITLE OF INVENTION: NOVEL MOLECULES OF
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,
EARLIER APPLICATION NUMBER: US 60/091,
EARLIER APPLICATION NUMBER: US 60/094,
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
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US-09-128-155-2
; Sequence 2, Application
; Patent No. 6117654
                                                   RESULT 4
US-09-128-155-11
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; Sequence 11, Application (; Patent No. 6117654; GENERAL INFORMATION: APPLICANT: Pan, Yang; TITLE OF INVENTION: NOVEL
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SOFTWARE: Fas
SEQ ID NO 7
FUNCTH: 167
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Matches 131
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TYPE: PRT
ORGANISM: Homo s
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TYPE: PR
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Local Similarity 93.6%;
les 131; Conservative
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                                                                                          KLMKLAAQKESARRPFIFYRAQVGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKH
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; SOFTWARE: FastSE(
; SEQ ID NO 5
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo s
US-09-128-155-5
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; TYPE: PRT
; ORGANISM: Homo s
US-09-128-155-11
RESULT 6
US-09-128-155-9
; Sequence 9, A
; Patent No. 61
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US-09-128-155-5
; Sequence 5, Application US/09128155
; Patent No. 6117654
; GENERAL INFORMATION:
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TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RE:

TITLE OF INVENTION: AND USES THEREOF

FILE REFERENCE: 09404/052001

CURRENT APPLICATION NUMBER: US/09/128,155

CURRENT FILING DATE: 1998-08-03

EARLIER APPLICATION NUMBER: US 60/091,650

EARLIER FILING DATE: 1998-07-02

EARLIER APPLICATION NUMBER: US 60/054,646

EARLIER FILING DATE: 1997-08-04

NUMBER OF SEQ ID NOS: 18

SOFTWARE: FastSEQ for Windows Version 3.0
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FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-02
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
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Best Local S
Matches 115
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Matches 130; Conser
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Pred. No. 1.1e-74;
3; Mismatches 2;
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US-09-128-155-13
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TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RE

TITLE OF INVENTION: AND USES THEREOF

FILE REFERENCE: 09404/052001

CURRENT APPLICATION NUMBER: US/09/128,155

CURRENT FILING DATE: 1998-08-03

EARLIER APPLICATION NUMBER: US 60/091,650

EARLIER FILING DATE: 1998-07-02

EARLIER FILING DATE: 1997-08-04
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TITLE OF INVENTION: NOVEL MOLECULES OF TANGO
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-02
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
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RESULT 8
US-09-128-155-18
; Sequence 18, Application
; Patent No. 6117654
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SEQ ID NO 1
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GENERAL INFORMATION:
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SOFTWARE: FastSEQ for
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ORGANISM: Homo
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    Pred. No. 3.1e-66;
); Mismatches 0;
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; LOCATION: (1)...(185); OTHER INFORMATION: Xa. US-09-128-155-18
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; Sequence 2, Ar
; Patent No. 5863769
; Patent Noung, Peter
Tnter
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SEQ ID NO 18
LENGTH: 185
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TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-02
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
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OTHER INFORMATION: human sequence predicted using an alignment algorithm which
OTHER INFORMATION: predicts presence of alternatively spliced exons for a protei
OTHER INFORMATION: interest in a stretch of genomic DNA
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                                                                                                                                                                                                                  ZIP: 19406-0
COMPUTER READAE
MEDIUM TYPE:
                                                           PRIOR APPLICAT APPLICATION | FILING DATE:
                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Young, Peter TITLE OF INVENTION: Interleukin-1 | TITLE OF INVENTION: Beta (IL-1RA_)
                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                              ATTORNEY/A
                                                                                                                                                       CURRENT AP
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                                                                                                                                                                    COMPUTER
OPERATING
SOFTWARE
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CITY: F
STATE:
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                                                                                         CLASSIFICATION: 536 RIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
NAME: Schreck, Patricia A REGISTRATION NUMBER: 33,7 REFERENCE/DOCKET NUMBER:
                                                                                                                          FILING DATE:
                                                                                                                                      APPLICAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FIFYRAQVGSWNMLESAAHPGWFICTSCNCNEPVGIXN 167
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3. 5863769
                                                                                                                                                                                                                                                                                          ESSEE: SmithKline FET: 709 Swedeland FET: King of Prussia
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(1)...(185)
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                                                                                                                       ION NUMBER: US/0
NATE: 28-JAN-1997
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                                               GENT INFORMATION:
                                                                             ION NUMBER:
                                                                                                                                                       PLICATION DATA:
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                                                                                                                                                                                                : Diskette
IBM Compatible
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   ATG50051
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; TYPE: amino acid
; STRANDEDNESS: sing
; TOPOLOGY: linear
; MOLECULE TYPE: prote
US-08-790-032-2
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US-09-069-619-2
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APPLICATION NUMBER: 09/007,464; a
FILING DATE: filed 14-JAN-1998; a
ATTORNEY/AGENT INFORMATION:
NAME: Han, William, T.
REGISTRATION NUMBER: 34,344
REFERENCE/DOCKET NUMBER: ATG50051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFO
                                                     INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
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                                                                                              TELECOMMUNICATION INFORMATION: TELEPHONE: 610-270-5219
TELEFAX: 610-270-5090
                                                                                                                                                                                                                                                                                                        ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
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CORRESPONDENCE ADDRE
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FILING DATE: Herewith
CLASSIFICATION:
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CITY: K:
STATE: I
COUNTRY:
TYPE: amino acid
STRANDEDNESS: sir
TOPOLOGY: linear
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3, 6054559
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| Similarity 38.3%; P
| 51; Conservative 26;
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PA
                                        169 amino acids
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Beta (IL-1RA_)
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Pred. No. 7.6e-19;
; Mismatches 51;
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and
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28-JAN-1997
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RESULT 11
US-09-494-018-2
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TITLE OF INVENTION: INTERLEUKIN-1 RECEPTOR ANTAGONIST BETA

TITLE OF INVENTION: (IL-IRAB)

FILE REFERENCE: ATG-50051-D1

CURRENT APPLICATION NUMBER: US/09/494,018

CURRENT FILING DATE: 2000-01-28

EARLIER APPLICATION NUMBER: 09/069,619

EARLIER APPLICATION NUMBER: 09/007,464

EARLIER APPLICATION NUMBER: 09/007,464

EARLIER FILING DATE: 1998-01-14

EARLIER APPLICATION NUMBER: 08/790,032

EARLIER APPLICATION NUMBER: 08/790,032
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; ORGANISM: HOMO
US-09-494-018-2
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US-09-417-455-5
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                                                     GENERAL INFORMATION:
APPLICANT: Ford, Joh:
APPLICANT: Pace, And
TITLE OF INVENTION:
                                                                                                           Sequence 5,
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Matches
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APPLICANT:
            FILE REFERENCH
CURRENT APPLIC
CURRENT FILING
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE:
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I: Ford, John
I: Pace, Ann
I: Pace, Ann
INVENTION: A NOVEL INTERLEUKIN-1 RECEPTOR ANTAGONIST AND USES THEREOF ERENCE: 28110/36328
ERENCE: 28110/NUMBER: US/09/417,455
FILING DATE: 1999-10-13
PLICATION NUMBER: US 09/348,942
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Similarity 38.3%;
51; Conservative 26
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SEQ ID NOS: 2
FastSEQ for Windows Version 3.0
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                                                                                                                             US/09417455
                                                                                                                                                                                                                                                                                                                                                             Score 225.5; DB 4;
Pred. No. 7.6e-19;
26; Mismatches 51;
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US-09-348-942-5

Equence 5, Application

Patent No. 6337072
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R APPLICATION NUMBER: US 09
R FILING DATE: 1998-05-15
R FILING DATE: US 09
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IT FILING DATE: 1999-07-07
IR APPLICATION NUMBER: PCT/US99/04291
IR FILING DATE: 1999-04-05
IR APPLICATION NUMBER: US 09/287,210
IR FILING DATE: 1999-04-05
IR APPLICATION NUMBER: US 09/251,370
IR APPLICATION NUMBER: US 09/251,370
IR FILING DATE: 1999-02-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 1998-06-19 APPLICATION NUMBER: US
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                     APPLICATION NUMBER: US | FILING DATE: 1998-05-15
                                              FILING DATE:
                                                         FILING DATE: 1998-0 APPLICATION NUMBER:
                                                                                                                                                                                                                                  INVENTION: A NOVEL
PRENCE: 28110/35801
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NUMBER: US 0
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NUMBER: US 0
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                                                          09/082,364
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Pred. No. 1.3e-12;
           09/055,010
                                  09/079,909
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US-09-316-081-5
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APPLICANT: Ballinger, Dennis G.
APPLICANT: Pace, Ann M.
TITLE OF INVENTION: Interleukin-1 Hy2 Materials and Methods
FILE REFERENCE: 28110/35659
FILE REFERENCE: 28110/35659
                                                                                                            Sequence 5, Patent No. 6
                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ
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TYPE: PRT
ORGANISM: Homo sapiens
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                         APPLICANT:
TITLE OF IN
                                                            APPLICANT:
              FILE
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CURRENT FILING DATE: 1999-05-20
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                                                                                                5, Application US/09578458 NO. 6365726 INFORMATION:
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WO. 6339141
INFORMATION:
NNT: Ballinger, Dennis G.
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APPLICATION NUMBER: US/09/578,458
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                       INVENTION:
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                                              Ballinger, Den
Ford, John
Ho, Alice
Lin, Hai Shan
                                   Pace, Ann M.
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           N: Interleukin-1 Hy2 Materials 28110/36479
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: Pred. No. 1.3e-12;
17; Mismatches 47
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CURRENT FILING DATE: 2000-05-22

PRIOR APPLICATION NUMBER: US 09/522,964

PRIOR FILING DATE: 2000-03-10

PRIOR APPLICATION NUMBER: US 09/316,086

PRIOR FILING DATE: 1999-03-20

NUMBER OF SEQ ID NOS: 20

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 5

LENGTH: 155

TYPE: PRT

ORGANISM: Homo sapiens

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Search completed: May Job time : 67 secs
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                                                           138 WNMLESAAHPGWFICTSCNCNEPVGVTDKFEN 169
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108 TSSFESAAYPGWFLCTVPEADQPVRLTQLPEN 139
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GenCore version Copyright (c) 1993 - 2003 5.1.4_p5_4578 Compugen Ltd.

OM nucleic nucleic search, using sw model

Run on: Мау 3, 2003, 05:23:36 ; Search time 99 Seconds (without alignments)
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Title:
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Scoring table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0

US-09-876-790-1 579 1 atgtcaggctgtgataggag.....ccagtgaggtcagcgattag 579

Searched: 441362 segs, 153338381 residues

Total number of hits satisfying chosen parameters:

882724

Minimum DB seq length: Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database Issued_Patents_NA:*
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2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	Ö	 -	ב	BB	ID	cription
_ ;		œ ;	80	4-	S-09-293-625-	equence 1, App
2	95	68.3	989	ω	S-09-128	e 1, Appl
ω	92.	.7	0	ω	s-09-128-155 <i>-</i>	equence 10, App
4	92.	7	0	w	s-09-128-155-	equence 6, Appl
ហ	92.	7	ω	ω	5-09-128-155-	ence 3, App
σ	25	ω ·	37	w	S-09-128-155-	equence 17, App
7	<u>'</u>	*	18	N	s-08-790-032-	equence 1, Appl
8	H	•	8.1	w	s-09-069-619-	equence 1, Appl
9			∞	4	S-09-494-018-	equence 1, Appl
c 10	7	•	21	μ	S-08-232-463-1	equence 14, App
11	<u>ი</u>	•	w	ω	s-09-000-630c	equence 25, App
12	<u>o</u>	•	S	w	S-08-862-730C-2	equence 25, App
13	<u>ა</u>		ω	4	S-09-647-826-1	equence 1, Appl
14	5		В	ω	S-09-058-489-	equence 86, App
15		•	38	4	S-09-578-458-1	equence 16, App
16	Ç.		4	w	-09-058-489-8	uence 8
17	4.		ťП	4	S-09-417-455-	equence 1, Appl
18	4.	•	(J	4	S-09-348-942-	equence 1, Appl
19			(J)	4	s-09-457-626-	equence 1, Appl
20	4.		CD.	w	S-08-798-414-	equence 1, Appl
21	4.		\mathbf{G}	4	S-09-131-247-	equence 1, Appl
22	4.		~1	ᆫ	S-08-476-860-	equence 9, Appl
23	4.		~ 1	2	S-08-910-733-	equence 9, Appl
24			-1	N	S-08-910-884-	equence 9, Appl
25	4		_	ب	S-08-284-784-	equence 41, Ap
26	4		_	N	S-08-854-811-4	ence 41, Ap
27	4		1.3	N	S-08-809-185-	equence 1, App
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Sequence 2, Appl	,	,	`	Sequence 1, Appl	Sequence 1, Appl	Sequence 1, Appl.	Sequence 2, Appl	Sequence 1, Appl	sequence 1, Appl	Sequence 1, Appl	Sequence 1, Appl	Sequence 12, App	Sequence 12, App	-	, μ	Sequence 24, App.	4,

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GENERAL INFORMATION:
APPLICANT: Pan, Yang
TITLE OF INVENTION: NOVEL MOLECULES OF TANGE
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER APPLICATION NUMBER: US 60/094,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
SOFTWARE: FastSEQ for Windows Version 3.0
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                                                                                                                                                                                                                                                                                              ORGANISM: Homo saplens
FEATURE:
NAME/KEY: CDS
LOCATION: (356)...(889)
S-09-128-155-1
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Best Local Similarity 98.0%;
Matches 400; Conservative
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LENGTH: 989
TYPE: DNA
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CAACCAGTTTGCAAAGCTGAAATGAGCCCCAGTGAGGTCAGCGATTAG
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GENERAL INFORMATION:

APPLICANT: Pan, Yang

TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 REI

TITLE OF INVENTION: AND USES THEREOF

FILE REFERENCE: 09404/052001

CURRENT APPLICATION NUMBER: US/09/128,155

CURRENT FILING DATE: 1998-08-03

EARLIER APPLICATION NUMBER: US 60/091,650

EARLIER FILING DATE: 1998-07-02

EARLIER APPLICATION NUMBER: US 60/054,646

NUMBER OF SEQ ID NUMBER: US 60/054,646

EARLIER FILING DATE: 1997-08-04

NUMBER OF SEQ ID NOS: 18

SOFTWARE: FastSEQ for Windows Version 3.0

LENGTH: 408

TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(408)

US-09-128-155-10
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Best Local Similarity
Matches 397; Conserv
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RESULT 3
US-09-128-155-10
; Sequence 10, Application
; Patent No. 6117654
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RESULT 4
US-09-128-155-6
; Sequence 6, App
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RELATED

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GENERAL INFORMATION:
APPLICANT: Pan, Yang
TITLE OF INVENTION: NOVEL MOLECULES OF TANGE
FILE REFERENCE: 09404/052001
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
SOFTWARE: FastSEQ for Windows Version 3.0

SOFTWARE:

US/09128155

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; SEQ ID NO 3
; LENGTH: 534
; TYPE: DNA
; ORGANISM: Homo s
US-09-128-155-3
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                                                                                                                                                              GENERAL INFORMATION:

APPLICANT: Pan, Yang

FITTLE OF INVENTION: NOVEL MOLECULES OF

FILE REFERENCE: 09404/052001

CURRENT APPLICATION NUMBER: US/09/128,

CURRENT FILING DATE: 1998-08-03

EARLIER APPLICATION NUMBER: US 60/091,

EARLIER APPLICATION NUMBER: US 60/091,

EARLIER APPLICATION NUMBER: US 60/094,

EARLIER FILING DATE: 1998-07-02

EARLIER FILING DATE: 1997-08-04

NUMBER OF SEQ ID NOS: 18

SOFTWARE: FastSEQ for Windows Version
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US-09-128-155-3
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; Patent No. 6117654
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Local Similarity 98.0%;
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98.08;
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                                                                                                                                                                 Version
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                                                               Score 392.2; DB Pred. No. 7e-121; 0; Mismatches
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Patent No. 611/00.

GENERAL INFORMATION:
APPLICANT: Pan, Yang
TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 REJ
FILLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 REJ
CURRENT APPLICATION NUMBER: US/09/128,155
CURRENT FILING DATE: 1998-08-03
EARLIER APPLICATION NUMBER: US 60/091,650
EARLIER FILING DATE: 1998-07-02
EARLIER APPLICATION NUMBER: US 60/054,646
EARLIER FILING DATE: 1997-08-04
NUMBER OF SEQ ID NOS: 18
COFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                 ; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(176373)
; OTHER INFORMATION: n = A, T
US-09-128-155-17
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SEQ ID NO 17
LENGTH: 176373
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milarity 100.0%;
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                  ACATTGAATTTCATTTCAACCAGTTTGCAAAGCTGAAATGAGCCCCAGTGAGG
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US-08-790-032-1
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Best Local S
Matches 227
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Young, Peter TITLE OF INVENTION: Inter TITLE OF INVENTION: Beta NUMBER OF SEQUENCES: 2 CORRESPONDENCE ADDRESS: ADDRESSEE: SmithKline E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: USE FILING DATE: 28-JAN-19 CLASSIFICATION: 536 PRIOR APPLICATION NUMBER: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 19406-0939
COMPUTER READABLE FOR MEDIUM TYPE: D1s
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OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows
CURRENT APPLICATION DATA:
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les 227; Conserv
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STRANDEDNESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Smith
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TTTTATAGGGCTCAGGTGGGCTCCTGGAACATGCTGGAGTCGGCGGCTCACCCCGGATGG
                            AAAGAGCAGAAGATCATGGATCTGTATGGCCAACCCGAGCCCGTGAAA---
                                                      AAGAAGGAGAAACTGATGAAGCTGGCTGCCCAAAAGGAATCAGCACGCCGGCCCTTCATC
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28-JAN-1997
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Mismatches
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4.1e-07;
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RESULT 8
US-09-069-619-1
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GENERAL INFORMATION:
APPLICANT: Young, 1
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Best Local S
Matches 227
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MOLECULE TYPE:
09-069-619-1
                                                                                                                                                                                                                                                                                                                   INFORMATION I
SEQUENCE CH
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NAME: Han, William, T.
REGISTRATION NUMBER: 34,
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APPLICATION NUMBER: 09/007,464; and
FILING DATE: filed 14-JAN-1998; and
                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNIC TELEPHONE:
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CORRESPONDENCE ADDRESS:
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STRANDEDN
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ZIP: 194
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OPERATING SYSTEM:
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                                                                                                                                                                                                                                                                                                       LENGTH:
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                        TCATCCTTGAGCTCAGCCTCTGCGGAGAAAGGAAGTCCGATTCTCCTGGGGGTCTCTAAA 267
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27; Conservative
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': 709 Swedeland Road
King of Prussia
                                                                                                                                                                                                                                                                                       nucleic acid
                                                                                                                                                                                                                                                                                                                                                         ATION NUMBER: 34,344
CE/DOCKET NUMBER: ATG:
NICATION INFORMATION:
NE: 610-270-5219
: 610-270-5090
                                                                                                                                                                                                                                                                                                                    FOR SEQ ID NO: CHARACTERISTICS:
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)406-0939
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                                                                                                               FATTACTGGGACTATTAATGATTTGAATCAGCAAGTGTGGACCCTTCAGGGTCAG
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28-JAN-1997
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TITLE OF INVENTION: INTERLEUKIN-1 RECEPTOR P
TITLE OF INVENTION: (IL-IRAB);
FILE REFERENCE: ATG-50051-D1;
CURRENT APPLICATION NUMBER: US/09/494,018;
CURRENT FILING DATE: 2000-01-28;
EARLIER APPLICATION NUMBER: 09/069,619;
EARLIER FILING DATE: 1998-04-29;
EARLIER APPLICATION NUMBER: 09/007,464;
EARLIER APPLICATION NUMBER: 08/790,032;
EARLIER APPLICATION NUMBER: 08/790,032;
EARLIER FILING DATE: 1997-01-28;
NUMBER OF SEQ ID NOS: 2
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Best Local Similarity
Matches 227; Conser
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TTCTACCGTGCCAAGACTGGTAGGACCTCCACCCTTGAGTCTGTGGCCTTCCCGGACTGG
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                               TTTTATAGGGCTCAGGTGGGCTCCTGGAACATGCTGGAGTCGGCGGCTCACCCCGGATGG
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Pred. No. 4.1e
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4.1e-07;
ches 228;
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US-08-232-463-14,
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                                                                                                                                                Query Match
Best Local
                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                               INFORMATION
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APPLICANT: FALKNER, F. G.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
                                                                                                                                                                                                   IMMEDIATE CLONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT NAME: BENT,
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LENGTH: 7218 base pair
TYPE: nucleic acid
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TELECOMMUNI
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AGTAC!
                           RRRRR
                                                     AGGTC
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                                                                                                                                   6.4%; Score 37.2; DB 1; Similarity 1.6%; Pred. No. 0.051; 6; Conservative 211; Mismatches 159;
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RICATION INFORMATION:
RE: (703)836-9300
(703)683-4109
                                                                                                                                                                                                                                                                                                FOR SEQ ID NO:
                                                                                                                                                                                                                   SOURCE
TGGTCCTGGACTCTGGGAATCTCATAGCAGTTCCAGATAAAAACTACATACGCCC
                            CAAAGGTGAAGAACTTAAACCCGAAGAAATTCAGCATTCATGACCAGGATCACAA 125
                                                                               pT2gpt-F1s
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1800 Diagonal Road,
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26-AUG-1991
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                                                                                                                                                               Length 7218;
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US-09-000-630C-
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08,
FILING DATE:
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 537 base pairs
                                                                                                                                             Query Match
Best Local Similarity
Matches 78; Conser
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CORRESPONDENCE ADDRESS
ADDRESSEE: Douglas
STREET: 2001 Park |
CITY: Birmingham
STATE: Alabama
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ZIP: 35203-2736
COMPUTER READABLE I
MEDIUM TYPE: D1:
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OPERATING SYSTEM: Microsoft
SOFTWARE: WordPerfect 6.0
JRRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/00
                                                                    CATGCTGGAGTCGGCGGCTCACCCCGGATGGTTCATCTGCACCTCCTGCAATTGTAATGA 476
TCCTGTGAGCCTCACCAACACACCGGA 491
                      GCCTGTTGGGGTGACAGATAAATTTGA
                                             CAGCTTTGAGTCAGCTGCCTGTCCAGGATGGTTCCTCTGCACAACACTAGAGGCTGACCG
                                                                                                                    CCAAAAGGAATCAGCACGCCCGGCCCTTCATCTTTATAGGGCTCAGGTGGGCTCCTGGAA
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                                                                                                                                            6.3%;
ilarity 53.1%;
Conservative
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DNA Encoding Canine
Antagonist
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lace, Suite 1400
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                                                                                                                                            Score 36.6; DB Pred. No. 0.019; Mismatches
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; TOPOLOGY: linear
; MOLECULE TYPE: mouse II
US-08-862-730C-25
ORGANISM: mouse US-09-647-826-1
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                                                               FILE REFERENCE: MSA-003.01
FILE REFERENCE: MSA-003.01
CURRENT APPLICATION NUMBER: US/09/647,828
CURRENT FILING DATE: 2001-03-12
PRIOR APPLICATION NUMBER: GB 9723835.6
PRIOR FILING DATE: 1997-11-13
PRIOR FILING DATE: 2
                                    NUMBER OF SEQ ID NOS
SOFTWARE: Patentin V
SEQ ID NO 1
LENGTH: 6350
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Patent No.
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APPLICANT: Ni
APPLICANT: In
TITLE OF INVEN
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lequence 25,
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SEQUENCE CH
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                          TYPE: DA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH:
                                                                                                                                                                                                                          No.
                         DNA
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No. 6437216
INFORMATION:
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                                                                                                              Interleukin Genetics, Inc.
IVENTION: TRANSGENIC MODELS OF IN
INCE: MSA-003.01
LICATION NUMBER: US/09/647,826
ING DATE: 2001-03-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DATE: 5/23/97
FOR SEQ ID NO:
CHARACTERISTICS:
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Nicklin, Martin
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PE: Diskette,
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Fuentes, Nelson L.
FUENTION: DNA Encoding Canine Interleukin-1 Receptor
FENTION: Antagonist
QUENCES: 27
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Place, Suite 1400
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 36.6; DB 3; Pred. No. 0.019; Mismatches 69;
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                                                                                                                                                          INFLAMMATORY DISEASE
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US-09-578-458-16
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; ORGANISM: Human
US-09-058-489-86
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US-09-058-489-86
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TITLE OF INVENTION: Genes in the No. 610388(
TITLE OF INVENTION: the Y Chromosome

FILE REFERENCE: WH197-08pA

CURRENT APPLICATION NUMBER: US/09/058,489

CURRENT FILING DATE: 1998-04-10

EARLIER APPLICATION NUMBER: 60/041,877

EARLIER FILING DATE: 1997-04-11

NUMBER OF SEQ ID NOS: 91

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 86
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Best Local
                                                            Sequence 16,
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Best Loc
Matches
                                     Patent No. 6365726 GENERAL INFORMATION:
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APPLICANT:
APPLICANT:
APPLICANT:
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TYPE: DNA
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Copyright GenCore (c) 1993

OM nucleic nucleic search, using sw model

Run on: Мау Ψ 2003, 04:04:12; Search time 1797 Seconds
(without alignments)
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Title:
Perfect score:
Sequence: US-09-876-790-1 579 1 atgtcaggctgtg

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1.0

Scoring table: IDENTITY_NUC Gapop 10.0 , Gapext

Searched: 2054640 seqs, 14551402878 residues

Total number ofhits satisfying chosen parameters: 4109280

Minimum DB Maximum DB seq seq length: 0 length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

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SUMMARIES

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RESULT 1		
LOCUS	AF201832 579 bp mRNA linear PRI 16-JAN-2000	
DEFINITION	Homo sapiens FIL1 zeta mRNA, complete cds.	
ACCESSION	AF201832	
VERSION	AF201832.1 GI:6694391	
KEYWORDS		
SOURCE	Homo sapiens.	
ORGANISM	Homo sapiens	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
REFERENCE	1 (bases 1 to 579)	
AUTHORS	Smith, D.E., Renshaw, B.R.; Ketchem, R.R., Kubin, M., Garka, K.E. and	
	Sims, J.E.	
TITLE	Four new members expand the interleukin-1 superfamily	

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3 Sims, J.E.
Direct Submission
Submitted (04-NOV-1999) Molecular
University Street, Seattle, WA 98
Location/Qualifiers
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                          TGCAAAGCTGAAATGAGCCCCAGTGAGGTCAGCGATTAG
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/chromosome="2"
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/protein_id="AAF25212.1"
/protein_id="AAF25212.1"
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SHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESAAHPGWFICTSCNCNEP
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Genomics 79 (5), 726-733 (2002)
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133 c 154 g 138 t
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/db_xref="taxon:9606"
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(IL1F7)
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Pred. No. 1.1e-149;
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CCGATTCTCCTGGGGGGTCTCTAAAGGGGAGTTTTGTCTCTACTGTGACAAGGATAAAGGA
                                                                               AAAGTACTGGTCCTGGACTCTGGGAATCTCATAGCAGTTCCAGATAAAAACTACATACGC
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AF251119.1 GI:10185727
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Pan,G., Baldwin,D.T. and
Direct Submission
Submitted (03-APR-2000)
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Mammalia;
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                                                                                                                                                                                                                                                                               receptor/IL-1Rrp; putative involvement in inflammation and immune responses"

/codon_start=1

/product="interleukin-1-related protein long isoform"

/protein_id="AAG14421.1"

/db_xref="GI:10185738"

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FVHTSPKVKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSAS

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VGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD
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99.6%;
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Catarrhini;
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NIH-MGC Project URL: http://myc.....

Contact: MGC help desk

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: CLONTECH

CDNA Library Preparation: CLONTECH Laboratories, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Sequencing Group at the Stanford Human Gen

Center, Stanford University School of Medicine, Stanford, CA

Web site: http://www-shgc.stanford.edu

Contact: (Dickson, Mark) mcd@paxil.stanford.edu

Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and M.
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Homo sapiens
Eukaryota; Metazoa; (
Mammalia; Eutheria; )
Mammalia; Eutheria;
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Homo sapiens, clone MGC:22276
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Location/Qualifiers
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                                                                                                                          / Organism="Homo sapiens"

/db_xref="taxon:9606"

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/clone_lib="NIH_MGC_79"

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FVHTSPKVKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSAS
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                                                                                   Eukaryota; Metazoa; Chordata; Craniat Mammalia; Eutheria; Primates; Catarrh 1 (bases 1 to 787)

Manoj, P.P., Mantovani, A. and Muzio, M. Direct Submission
Submitted (09-JUL-1999) Immunology, I 62, Milano 20157, Italy
                                                                                                                                                                                                                                              AAAGCTGAAATGAGCCCCAGTGAGGTCAGCGATTAG
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/codon_start=1
/product="IL-1X |
/protein_id="AAG2
                                   /organism="Homo sapiens
/db_xref="taxon:9606"
/tissue_type="colon card
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                                                                     Location/Qualifiers
                          'note="similar to
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VGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD
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/translation="MSFVGENSGVKMGSEDWEKDEPQCCLEDPAGSPLEPGPSLPTMN
/translation="MSFVGENSGVKMGSEDWEKDEPQCCLEDPAGSPLEPGPSLPTMN
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VGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD
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AF200496
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Kumar,S., McDc
Griswold,D.E.,
and Young,P.R.
Identification
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J. Biol. Chem.
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2 (bases 1 to
Kumar,S., McDo
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Homo sapiens interleukin-1 homolog
AF200496
AF200496.1 GI:7769119
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SmithKline Beecham Pharm
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/note="6
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Beecham Pharmaceuticals, 709 Swedeland Rd
19406, USA
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McDonnell, P.C. and Young, P.R.
Interleukin-1 homologue, IL-1H4
Patent: US 6342371-A 1 29-JAN-2002;
Location/Qualifiers
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caryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; malia; Eutheria; Primates; Catarrhini; Hominidae; Homo. (bases 1 to 817)
,G., Risser,P., Māo,W., Baldwin,D.T., Zhong,A.W., Filvaroff,E.nsura,D., Lewis,L., Eigenbrot,C., Henzel,W.J. and Vandlen,R.
                                                                                                         sapiens interleukin-1-related protein lete cds; alternatively spliced.
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Sequence 4
AX133934
AX133934.1
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Pan,G., Baldwin,D.T. and Zhong,A.W.
Direct Submission
Submitted (03-APR-2000) Endocrinology,
Sounth San Francisco, CA 94080, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity 99.0
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/product="interleukin-1-related protein long isoform a"
/product="interleukin-1-related protein long isoform a"
/protein_id="AAG14420.1"
/db_xref="GI:10185736"
/translation="MSFVGENSGVKMGSEDWEKDEPQCCLEDPAGSPLEPGPSLPTMN
/translation="MSFVGENSGVKMGSEDWEKDEPQCCLEDPAGSPLEPGPSLPTMN
FVHTSPKVKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSAS
AEKGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQ
VGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD
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/note="IL-1H;
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Mammalia; Eutheria; F
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Mammalia; Eur....

1 (bases 1 to 855)

Ushio,S., Nukada,Y., Yamamoto,K. and Kurımor.

Polypeptide and uses thereof

Patent: EP 1092773-A 6 18-APR-2001;

KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU KAGAKU KENKYUJO (JP)
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Ushio,S., Nuk
Polypeptide a
Patent: EP 10
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Polypeptide and uses thereof
Patent: EP 1092773-A 4 18-APR-2001;
KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU
Location/Qualifiers
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Similarity 99.6%;
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Primates;
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Local Similarity 99.6%;
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Eukaryota; Metazoa; Chordata
Mammalia; Eutheria; Primates
1 (bases 1 to 630)
Tang, Y.T., Yue, H., Lal, P., F
Azimzai, Y., Lu, D.A. and Patt
Extracellular signaling mole
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/protein_id="CAC38971.1"
/protein_id="CAC38971.1"
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VGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD
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="taxon:9606"
                                       Chordata; Primates;
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Pred. No. 4.1e
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Patterson, C. molecules
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                   Burford,
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                   Bandman, O.,
                                               Vertebrata;
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Godov
Wood,
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Euka:
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Sequence 141 from Patent WO0116318.
AX092410
AX092410.1 GI:13444519
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Location/Qualifiers
                                             ryota; Metazoa; Chordata; Craniata; Vertebrata; Ealia; Eutheria; Primates; Catarrhini; Hominidae; bases 1 to 754)
n,D.L., Filvaroff, E., Gerritsen, M.E., Goddard, A., wski, P.J., Grimaldi, C.J., Gurney, A.L., Watanabe, C
                            same
                                   eted and transmembrane polypeptides
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         ntech,
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                 WO 0116318-A 141 08-MAR-2001;
Location/Qualifiers
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/db_xref="taxon:9606"
/note="Incyte ID No: 4369
156 c 141 g 149
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99.2%;
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Pred. No. 3.9e-147;
0; Mismatches 4;
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141 g 148 t
                                                                               Vertebrata; Euteleostomi;
i; Hominidae; Homo.
                                   and
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                                   acids
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/organism="Homo sapiens"

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SOURCE
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ll14...

2 (bases 1 to ____

Pan,G., Baldwin,D.T. and ___

Direct Submission

Submitted (03-APR-2000) Endocrinology, Gr

Sounth San Francisco, CA 94080, USA

Location/Qualifiers

1. 537

1. 537
                                                                                                                                                                                                                                                                                                                                                                              AAATTTGAGAACAGGAAACACATTGAATTTTCATTTCAACCAGTTTGCAAAGCTGAAATG
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Cytokine 13 (1),
21066552
11145836
2 (bases 1 to 53
                                                                                                                                                                                                                                     537 bp mRNA
Homo sapiens interleukin-1-related protein
complete cds; alternatively spliced.
AF251120
AF251120.1 GI:10185730
                                                                                                                                           Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleosto
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 537)
1 (bases 1 to 537)
Pan,G., Risser,P., Mao,W., Baldwin,D.T., Zhong,A.W., Filvarofi
Yansura,D., Lewis,L., Eigenbrot,C., Henzel,W.J. and Vandlen,R
IL-1H, an interleukin 1-related protein that binds IL-18
                                                                                                                                                                                                                       Homo
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

E 1 (bases 1 to 474)

E 1 (bases 1 to 474)

S Taylor, S.L., Renshaw, B.R., Garka, K.E., Smith, D.E. and Sims, J.E.
Genomic organization of the interleukin-1 locus

Genomics 79 (5), 726-733 (2002)

E 21988051

D 11991723

E 2 (bases 1 to 474)

E 7aylor, S.L., Renshaw, B.R., Garka, K.E., Smith, D.E. and Sims, J.E.
Direct Submission

L Submitted (26-DEC-2001) Molecular Genetics, Immunex Corporation, 51

University Street, Seattle, WA 98101, USA

Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                        AGGTGG
AGGTGG
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Mammalia; F
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Homo sapiens
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sapiens
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/protein_id="AAG14422.1"
/db_xref="GI:10185740"
/translation="MSFVGENSGVKMGSEDWEKDEPQCCLEDPAVSPLEPGPSLPAMN
FVHTKIFFALASSLSSASAEKGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMK
LAAQKESARRPFIFYRAQVGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIE
FSFQPVCKAEMSPSEVSD"
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CTGGAGTCGGCGCTCACCCCGGATGGTTCATCTGCACCTCCTGCAATTGTAATGAGCCT
                                                                                                    AAGGAATCAGCACGCCGGCCCTTCATCTTTATAGGGCTCAGGTGGGCTCCTGGAACATG
                                                                                                                                                      AGTCCGATTCTCCTGGGGGTCTCTAAAGGGGAGTTTTGTCTCTACTGTGACAAGGATAAA
                                                                                                                                                                                                                                                                                                                CACAAAGTACTGGTCCTGGACTCTGGGAATCTCATAGCAGTTCCAGATAAAAACTACATA
                                                                                                                                                                                                                                                                                                                                                                     100.0%; 1 Similarity 100.0%; 579; Conservative 0;
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PPRESULT PRESULT PRESU
                                  CC The present sequence is that of the coding region of cDNA encoding CC splice variant TDZ.2 (testis-derived zeta variant, see AAY95300) of Chuman interleukin-1 zeta (IL-1 zeta). TDZ.2 mRNA is generated from CC exons 1, 4, 5 and 6 of the IL-1 zeta locus on chromosome 2, and CC The encoded protein is probably a functional IL-1 like molecule. CC TDZ.2 mRNA is expressed most strongly in the testis and bone marrow. CC The invention is directed to novel, purified and isolated IL-1 CC zeta, its splice variants and xrec2 polypeptides (see AAY95297-301), the nucleic acids (see AAA27918-22) encoding such polypeptides, CC and their uses. TDZ.2 nucleic acids are used to: to express TDZ.2 cc polypeptides; as probes to identify nucleic acids encoding CC proteins of the IL-1 ligand family; to identify genes associated with diseases, syndromes, or other conditions associated with chromosome C2; such as glaucoma, ectodermal dysplasia, insulin-dependent Cdiabetes mellitus, wrinkly skin syndrome, T-cell leukaemia or lymphoma, and tibial muscular dystrophy; as single-stranded sense C2 cor antisense oligonucleotides to inhibit expression of TDZ.2 cor gene therapy.
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P-PSDB;
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  dysplasia; wrinkly skin syndrome; leukaemia; lymphoma;
pendent diabetes mellitus; tibial muscular dystrophy; ss.
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99US-0164675.
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Query Mu. Best Lo

11 Si 519;

imilarity

89.4%; 99.6%;

Score 517.8; DB 21 Pred. No. 8.5e-163;); Mismatches 2;

DB 21;

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22-JAN-1999;
13-APR-1999;
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99US-0116843.
99US-0129122.
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An isolated nucleic acid molecule encoding an interleukin-1-like C polypeptide (IL-1lp) that retains one or more activities of the peptide C from which it is derived, such as the IL-18R binding activity of a human C interleukin-1 receptor antagonist-1 (HIL-1Ral) polypeptide, is new. The C interleukin-1 receptor antagonist-1 (HIL-1Ral) polypeptide, is new. The C nucleic acids may be used in molecular engineering applications, e.g. C hybridization assays and chromosome and gene mapping studies, for recombinantly producing the IL-11p polypeptide or for producing gene knock out animals to study the role of the protein in metabolism and C disease processes (conversely, gene therapy protocols may be used to supplement a patients production of the polypeptide or to rectify mutations that lead to the production of in active peptides). The peptides produced may be used to screen for and produce modulators (e.g. antibodies) of IL-11p protein expression and activity which may be used to treat disorders associated with inappropriate IL-11p expression and activity, such as inflammatory disorders, asthma, arthritis, osteoarthritis, sepsis, acute lung injury, adult respiratory distress
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22-JAN-1999;
13-APR-1999;
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                                                                                                                                                                                                                                                            preventing
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testis-derived
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insulin-depend
                   14-DEC-1998
10-NOV-1999
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                                                                                     8-A2.
                                                                                                                       ived zeta variant; chromosome 2; gene therapy; glaucom
  dysplasia; wrinkly skin syndrome; leukaemia; lymphoma
pendent diabetes mellitus; tibial muscular dystrophy;
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                   98US-0112163
99US-0164675
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                                                                                                                                                                      zeta splice variant TDZ.1 cDNA.
                                                                                                                                                   IL-1 zeta;
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100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 514
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 20
P-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                                      GAGTCGGCGGCTCACCCCGGATGGTTCATCTGCACCTCCTGCAATTGTAATGAGCCTGTT
                                                                                          GAATCAGCACGCCGGCCCTTCATCTTTATAGGGCTCAGGTGGGCTCCTGGAACATGCTG
                                                                                                                                              CCAGAGATCTTCTTTGCATTAGCCTCATCCTTGAGCTCAGCCTCTGCGGAGAAAGGAAGT
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99.6%;
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Qy

124

AAAGTACTGGTCCTGGACTCTGGGAATCTCATAGCAGTTCCAGATAAAAACTACATACGC

183

261

AAAGTACTGGTCCTGGGACTCTGGGAATCTCATAGCAGTTCCAGATAAAAACTACATACGC

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AGAGGT

Query Ma Best Loc Matches

Local

Sim

88.6%;
larity 99.6%;
Conservative

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Score 512.8; DB 21; Pred. No. 4.3e-161; 0; Mismatches 2;

Length 657;

Indels

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Gaps

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514;

Match

Sequence

65

BP; 184 A; 158 C; 166 G; 149 T; 0 other;

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                     (b) comprises at least one sequence selected from: AAY91885); and AAY91904-06. The preferred 12 consecutive amino acid segment is chosen from AAY91907-18 or AAY91919-21. IL-1-zeta is likely to play a role in systemic inflammatory reactions, such as fever, hypoglycemia, reduced plasma iron and zinc, the acute response of the liver, and increase plasma copper. IL-1-zeta binding compounds (comprising antigen binding sites) and IL-1-zeta polypeptides are also useful for both diagnostic are therapeutic purposes.
                                                                                                                                                                                                                                                                                          WPI; 200
P-PSDB;
                                                                                                                                                                                          The
                                                                                                                                                                                                                                        New mammalian interleukin 1 like molecule, designated IL-1-zeta, useful for diagnostic and therapeutic purposes, comprises a 128 amino acid sequence
                                                                                                                                       recombinant antibodies
                                                                                                                                                                            The presented
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                                                                                                                                                                 perhaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypoglycemia; plasma iron; plasma copper; ss.
                                                                                                                                                                                                                   Disclosure
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                                                                                                                      IL-1-zeta. It is an alternative sequence to AAA08512, allelic variant. The specification claims an isolated or polypeptide that: (a) specifically binds polyclonal generated against at least a 12 consecutive amino acid segment (see AAY91884) or its allelic variant (see AAY91885); and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAAATGAGCCCCAGTGAGGTCAGCGATTAG 657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  terleukin-1 like;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        erleukin-1 like (IL-1-zeta) alternative coding sequence.
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                                                                                                                                                                                                                Page 102-103; 110pp; English.
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plasma zinc;
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The present sequence is the coding sequence for human interleukin-homologue (IL-1H4). IL-1H4 is useful for treating conditions such chronic and acute inflammation, septicaemia, autoimmune diseases (inflammatory bowel disease, psoriasis, and arthritis), transplant
                                                                       Interleukin-1 homolog useful for and acute inflammation, septicemi
                                                                                                 WPI; 2000-687155/67
P-PSDB; AAB28266.
                                                                                                                                                                                                                                                Human; interleukin-1 homologue; IL-1H4; inflammation; septicaemia; autoimmune disease; inflammatory bowel disease; psoriasis; arthritis; transplant rejection; graft versus host disease; infection; stroke; ischaemia; acute respiratory disease; allergy; asthma; restenosis; brain injury; AIDS; bone disease; osteoporosis; cancer; congestive heart failure; atherosclerosis; Alzheimer's disease; ss.
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asthma -
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AC AAF8
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                                                                                                  n-1; IL-1H4; antiinflammatory; antibacterial; antiallergic; ressive; antipsoriatic; antiarthritic; cytostatic; antiHIV; tective; antiasthmatic; vasotropic; vulnerary; osteopathic; ulant; antiarteriosclerotic; nootropic; neuroprotective;
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                                                                                          vaccine;
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P-PSDB;
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                 GAGTCGGCGGCTCACCCCGGATGGTTCATCTGCACCTCCTGCAATTGTAATGAGCCTGTT
                                                                                              2001-389949/41.
B; AAB85136.
GGGGTGACAGATAAATTTGAGAACAGGAAACACATTGAATTTTCATTTCAACCAGTTTGC
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Pred. No. 4.8e
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      An isolated nucleic acid molecule encoding an interleukin-1-like polypeptide ("IL-11p) that retains one or more activities of the peptide from which it is derived, such as the IL-18R binding activity of a human interleukin-1 receptor antagonist-1 (hIL-1Ral) polypeptide, is new. The nucleic acids may be used in molecular engineering applications, e.g. hybridization assays and chromosome and gene mapping studies, for recombinantly producing the IL-11p polypeptide or for producing gene knock out animals to study the role of the protocols may be used to supplement a patients production of the polypeptide or to rectify mutations that lead to the production of in active peptides). The complete produced may be used to screen for and produce modulators (e.g. antibodies) of IL-11p protein expression and activity which may be use to treat disorders associated with inappropriate IL-11p expression and activity, such as inflammatory disorders, asthma, arthritis, sepsis, acute lung injury, adult respiratory distress syndrome, idiopathic pulmonary fibrosis, ischemic reperfusion disease, psociasis, graft versus host disease and/or inflammatory bowel disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 osteopathic; intanti-asthmatic; anti-ischemic; degene therapy; ds
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22-JAN-1999;
13-APR-1999;
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P-PSDB;
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                                                                                                                                                                                                                                                                                    Claim
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                                                                                                                                                                                                                                                                                                            preventing
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bB; AAY96940.
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                                                                                                                                                                                                                                                                                 7;
                                                                                                                                                                                                                                                                                                           acids encoding interleukin-1-like polypeptides, usefuling and treating e.g. inflammation, asthma and psoriasis
                                                                                                                                                                                                                                                                                                                                                                                                 ₽,
                                                                                                                                                                                                                                                                                 Fig 19; 143pp; English.
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; interleukin-1-like polypeptide; anti-inflammatory;
tic; anti-arthritic; antimicrobial; respiratory; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receptor antagonist 1 V DNA.
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99US-0116843.
99US-0129122.
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73..729
/*tag= a
/product= hIL-1RalV
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RESULT 10
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Best Local Similarity 99.6%;
Matches 514; Conservative
                                                                                                                      Interleukin-1-related polypeptide; natural killer activity; immune syimmunodeficiency; ss.
                             11-OCT-2000;
                                           18-APR-2001
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121..777
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                                                                                                                                                  related substance
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 KAGAKU
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                                                                      substance
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RESULT 1
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Best Local Similarity 99.0
Matches 514; Conservative
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IL-1
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                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ushio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New human interleukin-1-related polypeptide and polynucleotide, use for gene therapy and in developing drugs as regulators of natural killer activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
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P-PSDB; AAB47186
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                                   GGGGTGACAGATAAATTTGAGAACAGGAAACACATTGAATTTTCATTTCAACCAGTTTGC
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                                                                                                                                                                                                                                                                                                                                              88.6%;
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                                                                                                                                                                                                                                                                                                                                     Score 512.8; DB 22;
Pred. No. 4.9e-161;
0; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                         202 G; 191 T; 0 other;
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Matches 514
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CDS
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                                                                                                                                                                                                                                                                                                                                                   9
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; interleukin identification; ss
                                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                    WPI; 2001-609968/70
P-PSDB; AAG68116.
                                                                                                                                                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                  treatment
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Local Similarity 99.6%;
hes 514; Conservative
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t agents -
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370..1026
/*tag= a
/product= "IL
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                                                                                                                                                                                                            Score 512.8; DB 22; Pred. No. 5.7e-161; ); Mismatches 2;
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RESULT 12
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Matches
                                                                                                                                                                                                                                                                                           The present cDNA sequence encodes human interleukin (IL)-1 homolog zilla4 protein. This cDNA was cloned from a human foetal lung cDNA library. The zilla4 proteins modulate inflammation and other immunological processes and are therefore useful for treatment of arthritis, psoriasis, septic shock, graft-versus-host disease and leukaemia. Other diseases that may be modulated by zilla4 proteins include cancer, anaemia, inflammatory bowel disease, acute and chronic neuropathologies, shock, respiratory disease syndrome, restenosis and acquired immune deficiency syndrome.
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disease, leukemia -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         atory interleukin-1 homolog zilla4 proteins, useful for fe.g. arthritis, psoriasis, septic shock, graft-versus-host
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An isolated nucleic acid molecule encoding an interleukin-1-like C polypeptide (IL-llp) that retains one or more activities of the peptide (I from which it is derived, such as the IL-18R binding activity of a human interleukin-1 receptor antagonist-1 (hIL-1Ra1) polypeptide, is new. The nucleic acids may be used in molecular engineering applications, e.g. C hybridization assays and chromosome and gene mapping studies, for recombinantly producing the IL-llp polypeptide or for producing gene knock out animals to study the role of the protein in metabolism and cisease processes (conversely, gene therapy protocols may be used to supplement a patients production of the polypeptide or to rectify mutations that lead to the production of in active peptides). The peptides produced may be used to screen for and produce modulators (e.g. antibodies) of IL-llp protein expression and activity which may be use to treat disorders associated with inappropriate IL-llp expression and activity, such as inflammatory disorders, asthma, arthritis, sepsia, acute lung injury, adult respiratory distress syndrome, idiopathic pulmonary fibrosis, ischemic reperfusion disease, psoriasis, graft versus host disease and/or inflammatory bowel disease.
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04-OCT-1999;
                                                                                                                     WPI; 200
P-PSDB;
                                                                                                                                                Tang YT, Y
Azimzai Y,
                                                                                                                                                                                                                                                                                                                                Extracellular signaling molecule; EXCS; anti-inflammatory; human; immunosuppressive; cytostatic; neuroprotective; gastrointestinal; virucide; antibacterial; anti-HIV; human immunodeficiency virus; antiinfertility; cerebroprotective; nootropic; antiulcer; antifungal; anticonvulsant; tranquilizer; neuroleptic; vasotropic; gynecological;
                                                    Claim
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on provides human extracellular signaling molecules (EXCS) leotides which identify and encode EXCS. EXCS can be y standard recombinant methodology. The amino acid and nucleic ces of EXCS are useful for diagnosing, treating and
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Contact: Rob Email: Tissue , Ph.D. AI343; EST. human mRNA sequence. AI343258 AI343258.1 GI:4080464 www-bic Insert AI343258 tb94b05.x1 NCI_CGAP_Co16 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.National Cancer Institute, Cancer Genome Anal Tumor Gene Index foun cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing C
Clone distribution: NCI-CGAP clone distribution information
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 814 Std Error: 0.00 ublished (1997) Fact: Robert Strausberg, Ph.D. []: cgapbs-r@mail.nih.gov Bue Procurement: Ilan Kirsch, M.D., Michael R. 40UP from Chordata; Craniata; Vertebrata; Primates; Catarrhini; Hominidae; Homo 561 bp sapiens cDNA clone mRNA Anatomy linear EST 18-MAR-1999 IMAGE: 2061969 3', Project Emmert-Buck, M.D. Euteleostomi; Homo. (CGAP), Center can be

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/clone="IMAGE:2061969"
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/tissue_type="colon tumor, RER+"
/lab_host="DH10B"
/note="Organ: colon; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Plasmid DNA from the normalized library NCI_CGAP_Col0 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1057416-1061255, and 1144584-1145351).
Subtraction by Bento Soares and M. Fatima Bonaldo. "
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Local Simi
hes 473;
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L Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.

cDNA Library Preparation: CLONTECH Laboratories, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLCM1589 row: c column: 22
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|CCAGAGA
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CCGATTO
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Conservative
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4731213"
/clone=lib="NIH_MGC_79"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: placenta; Vector: pDNR-LIB (Clontech);
/note="Organ: placenta; Vector: pDNR-LIB (Clontech);
Site_1: Sfil (ggccgcctcggcc); Site_2: Sfil (ggccattatggcc); 5' and 3' adaptors were used in cloning as follows: 5'
adaptor sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor
sequence: 5'-ATTCTAGAGGCCGAGGCGGCCGACATG-dT(30)BN-3'
(where B = A, C, or G and N = A, C, G, or T). Average
insert size 1.3 kb (range 0.5-4.0 kb). 15/15 colonies
contained inserts by PCR. This library was enriched for
full-length clones and was constructed by Clontech
Laboratories (Palo Alto, CA). Note: this is a NIH_MGC
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/db_xref="+--
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Pred. No. 2e-113;
Nismatches 16;
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RESULT 3
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N ou40f01.x1 Soares_NFL_T_GBC_S1 Holimage:1628761 3', mRNA sequence.
AI014548
AI014548.1 GI:3220^^^
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                                                                                                                                                                                   ACTACATACGCCCAGAGATCTTCTTTGCATTAGCCTCATCCTTGAGCTCAGCCTCTGCGG
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                                                                                   GGAACATGCTGGAGTCGGCGGCTCACCCCCGGATGGTTCATCTGCACCTCCTGCAATTGTA
                                     407;
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Mammalia; Eutheria; Primates; Catarrhini; Hom
1 (bases 1 to 485)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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                                                                                                                                                                                                                                                                                            /note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NbHL19W, testis NHT, and B-cell NCI_CGAP_GCB1) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 297480-302087, 682632-687239, 726408-728711, and 729096-731399. Subtraction by Bento Soares and M. Fatima Bonaldo. "
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1628761"
/clone_lib="Soares_NFL_T_GBC_S1"
/lab_host="DH10B"
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Pred. No. 5.5e-107;
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i; Hominidae;
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Best Local Similarity 99.6%;
Matches 224; Conservative
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Unpublished (1998)
Other_GSSs: CIT-HSP-2326018.TV
Contact: Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Cont
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TTGCAAAGCTGAAATGAGCCCCAGTGAGGTCAGCGATTAG 579
                                                                 AAAGGAATCAGCACGCCCGGCCCTTCATCTTTTATAGGGCTCAGGTGGGCTCCTGG
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nes are available from Research
search page:
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len,K., Berry,K., Granger,D.,
on,M. and Venter,J.C.
of a random BAC End Sequence
                                                                                                                                                                                                                                                                                                                                            >://www.tigr.org/tdb/humgen/bac_end_search/bac_end_search.html
primer: M13 Reverse
ss: BAC ends.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Institute for Genomic Research Medical Center Dr., Rockville,
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                                                                                                                                                                                                                                                                                    /organism="Homo sapiens
/db_xref="taxon:9606"
/clone="2326018"
                                                                                                                                                                                                                                        /cell_type="Sperm"
/note="Vector: pBe
                                                                                                                                                                                                                                                              /clone_lib="CIT-HSP"
/sex="Male"
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                                                                                                                                                          Score 223.4; DB 17; Pred. No. 7.8e-54; ); Mismatches 1;
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.., Shizuya,H.
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L Genome Res. 10 (11), 1757-1771 (2000)
                                                                                                                                                                                                 Arakawa, T., Hara, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I., Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G., Quackenbush, J., Schriml, L.M., Staubli, F., Suzuki, R., Tomita, M., Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H., Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carninci, P., de Bonaldo, M.F., Brownstein, M.J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P., Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H., Sato, K., Wang, K.H., Weitz, C., Whittaker, C., Wilming, L., Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohtsuki, S., and Havashira, Y., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohtsuki, S.
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Adachi, J., l
Arakawa, T.,
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HTC; CAP trapper.
Mus musculus (strain:C57BL/6J) adult clone_lib:RIKEN full-length enriched clone:2310043N20.
Mus musculus
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                                                                                                                               Functional annotation of a Nature 409 (6821), 685-690
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Eutheria;
1 to 1219)
Aizawa,K., Akahi
, Baldarelli,R.,
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    Akahira,S., A, R., Bono,H.,
                                                                                                                                 full-length mouse
(2001)
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Sciurognathi;
 Akimura, T., Aono, ., Brownstein, M.,
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    H., Arai, A., Bult, C.,
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Direct
Submitt
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Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Gemomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
Please visit our web site (http://genome.gsc.riken.go.jp/) for further details.
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QMVWVLTQLKEVDIMNLYKERKAQKAFLFYHGIEGSTSVFQSVLYPGWFIATSSIER
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1219
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Mammalia; Eutheria;
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NIH-MGC http://mgc.n
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Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                         cDNA Library Preparation: CLONETECH Laboratories, I cDNA Library Arrayed by: The I.M.A.G.E. Consortium DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution informat found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLCM941 row: k column: 12 High quality sequence stop: 582.
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Institutes of Health,
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Sfil (ggccgctcggcc); Site_2: Sfil (ggccattatggcc)
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S Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
High-efficiency full-length cDNA cloning
L Meth. Enzymol. 303, 19-44 (1999)
E 99279253
D 10349636
E 2
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new gene prepare full-length cDNA libraries for rapid discovery of new gene conserved Res. 10 (10), 1617-1630 (2000)
E 20499374
D 11042159
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Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P. Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumin N., Shii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
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Functional annotation of a full-length mouse cDNA collection Lature 409 (6821), 685-690 (2001)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Aono, H., Arai, A., Arakawa, T., Baldarelli, R., Bono, H., Brownstein, M., Bult, C., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanagaki, T., Hara, A., Hayatsu, N., Hill, D., Hiramoto, K., Hiraoka, T., Hori, F., Hume, D., Imotani, K., Ishii, Y., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Quackenbush, J., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Saito, H., Shibata, K., Shibata, Y., Shinagawa, A., Shiraki, T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Direct Submission
Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Gemomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
                                                                                                                                                           Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D. Schriml, L., Shibata, K., Shibata, Y., Shinagawa, A., Shiraki Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Tejima, Y., Toya, T., Yamamura, T., Yamanaka, I., Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M. and Hayashizaki, Y.
                                                     Please visit our web site (http://genome.gsc.riken.go.jp/) for further details.
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Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new Genome Res. 10 (10), 1617-1630 (2000)
                                                                                                                                                                                                      HTC; CAP trapper.
Mus musculus (strain:C57BL/6J) adult clone_lib:RIKEN full-length enriched clone:2210418I04.
Mus musculus
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/organism="Mus musculus"
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/db_xref="FANTOM_DB:2310041K07"
/db_xref="MGD:MGI:1897667"
/db_xref="taxon:10090"
/clone="2310041K07"
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/db_xref="GI:12844720"
/db_xref="MGD:MGI:1859325"
/translation="MMVLSGALCFRMKDSALKVLYLHNNQLLAGGLHAEKVIKGEEIS
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RRDMGLTSSFESAAYPGWFLCTSPEADQPVRLTQIPEDPAWDAPITDFYFQQCD"
271 c 266 g 255 t
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_lib="RIKEN full-length enriched mouse
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Direct Submission
Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Gemomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
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Wynshaw-Boris, A., and Hayashizaki, Y.
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e_lib:RIKEN full-length enriched mouse
e:2310063B08.
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/db_xref="MGD:MGI:1859325"
/translation="MMVLSGALCFRMKDSALKVLYLHNNQLLAGGLHAEKVIKGEEIS
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RRDMGLTSSFESAAYPGWFLCTSPEADQPVRLTQIPEDPAWDAPITDFYFQQCD"
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/strain="C57BL/6J"
/db_xref="FANTOM_DB:2210418I04"
/db_xref="MGD:MGI:1895667"
/db_xref="taxon:10090"
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/gene="Illf5"
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/clone_lib="RIKEN full-length
/dev_stage="adult"
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Functional annotation.
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                                                                                                                                                                                                           Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Gemomic Sciences Center (GSC RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yoko Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
cDNA library was prepared and sequenced in Encyclopedia Project of Genome Exploration Genomic Sciences Center and Genome Science
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cDNA library
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Carninci, P. and Hayashizaki, Y. High-efficiency full-length cDNA Meth. Enzymol. 303, 19-44 (1999) 99279253 10349636
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S Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Aono, H., Arai, A., Arakawa, T., Baldarelli, R., Bono, H., Brownstein, M., Bult, C., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanagaki, T., Hara, A., Hayatsu, N., Hill, D., Hiramoto, K., Hiraoka, T., Hori, F., Hume, D., Imotani, K., Ishii, Y., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Quackenbush, J., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Schriml, L., Shibata, K., Shibata, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Tejima, Y., Toya, T., Yamamura, T., Yamanaka, I., Yasunishi, A., Yoshida, K., Yoshino, M., Muramatsu, M. and Hayashizaki, Y.
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                                                                                                                                                                                                                                               Direct Submission
Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Gemomic Sciences Center (GRIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
further details.

cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Grougenomic Sciences Center and Genome Science Laboratory in Division of Experimental Animal Research in Riken contributions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Functional annotation of a full-length mouse cDNA collection Nature 409 (6821), 685-690 (2001)
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E 1 (bases 1 to 369)
S NCI/NINDS-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute / National Institute of Neurol
Disorders and Stroke, Brain Tumor Genome Anatomy Project
(CGAP/BTGAP), Tumor Gene Index
Unpublished (1998)
Contact: Robert
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              cgapbs-r@mail.nih.gov
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/db_xref="MGD:MGI:1859325"
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/clone_lib="RIKEN full-length enriched mouse
/dev_stage="0 day neonate"
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DNA Sequencing by: Washington University Genome Se
Clone distribution: NCI-CGAP clone distribution in
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1392 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 344.
Location/Qualifiers
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                                   WashU Zebrafish EST Project 1998
Unpublished (1998)
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. 1
Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                 Kohn, S., Shin and Wilson, R.
                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Actinopterygii; Neopterygii; Cyprinidae; Danio.
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Dratory of Cancer Genetics

wig Institute for Cancer Results

Prof. Antonio Prudente 109,
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Prafish identity (p-value greater than le-99) found to: TI
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Eutheria;
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/note="Organ: testis (pooled); Vector: pBluescript SK-,
/note="Organ: testis (pooled); Vector: pBluescript SK-,
Site_1: XhoI; Site_2: EcoRI; Poly A+ RNA was isolatd find the testes of 31 male adult zebrafish (4-5 month old) the testes of 31 male adult zebrafish (4-5 month old) cDNAs were made using oligo-dT primers and inserted into lambda ZAP II vector (Stratagene) by Dr. Z. Gong, in with the mass-excised to pBluescript SK- following the washingtone.
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141099-012-c02&t3=1999-10-14&t4=1)
Seq primer: puc 18 forward
                                                                                                                                                                                                   HCGP http://www.ludwig.org.br/ORESTES.
The FAPESP/LICR Human Cancer Genome Pr
Unpublished (1999)
                                                                                                     Tel
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?t1=CM3&t2=CM3-HT0192 071099-022-e12&t3=1999-10-07&t4=1)
                                                                                                                                    Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 and
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/dev_stage="Adult"
/note="Ores"
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/db_xref="taxon:9606"
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/db_xref="taxon:9606"
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SmaI; A min1-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No. 196
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RESULT 1
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insulin-dependent

diabetes mellitus

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                                                                                                                                                                                                                                                                                                      imilarity
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                                                                                                                                                                            ids encoding interleukin-1-like polypeptides, useful for and treating e.g. inflammation, asthma and psoriasis
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                                                                                                                                                                                                                                                                                                                                             203 AA;
                                                                                                                                                                                                                                                                                       89.1%; Score 906; DB 21; llarity 100.0%; Pred. No. 6.8e-98; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pan J;
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                                                                                                                                                                                                                                          The present sequence is that of splice variant TDZ.2 (testis-derived zeta variant) of human interleukin-1 zeta (IL-1 zeta). TDZ.2 mRNA is generated from exons 1, 4, 5 and 6 of the IL-1 zeta locus, and the encoded protein is probably a functional IL-1 like molecule. TDZ.2 mRNA is expressed most strongly in the testis and bone marrow. The invention is directed to novel, purified and isolated IL-1 zeta, its splice variants and Xrec2 polypeptides (see AAY95297-301), the nucleic acids (see AAA27918-22) encoding such polypeptides, processes for production of recombinant forms of such polypeptides, and their uses. The polypeptides can be used to study cellular processes such as immune regulation, cell proliferation, cell death, cell migration, cell-to-cell interaction and inflammatory responses, to identify proteins associated with IL-1 zeta, to screen for potential inhibitors, and to prepare antibodies. In particular, they can be used to activate and/or inhibit the activate and/or inhibit the activate and/or inhibit the induce and/or inhibit the induction of local tissue destruction and fever, inhibit and/or stimulate macrophages and vascular endothelial cells to prostaglandins, nitric oxide synthetase, and metalloproteases, and currequilate and/or inhibit the upregulation of molecules on the surface of vascular endothelial cells.
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Best Local
Matches 1
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N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Isolated interleukin-1 (IL-1) zeta nucleic acids and splice var TDZ1, TDZ2, TDZ3 and their encoding proteins, useful as probes identifying genes associated with diseases such as glaucoma, ar insulin-dependent diabetes mellitus -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sims
                                                                                                                                                                                                                      Sequence
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10-NOV-1999;
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testis-derived
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)B; AAA27921.
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                                                                                                                                                                 171; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IMMUNEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 11; 87pp; English.
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d zeta
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99US-0164675.
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variant; therapy;
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99.4%;
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inflammation;
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                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention provides an isolated interleukin-1 homologue, IL-1H4 polypeptide. The IL-1H4 polypeptide can be expressed by standard recombinant methodology. The IL-1H4 polypeptide, polynucleotides and modulators are useful for treating chronic and acute inflammation, septicemia, autoimmune diseases (e.g., inflammatory bowel disease, psoriasis and arthritis), transplant rejection, graft versus host disease, infection, stroke, ischemia, acute respiratory disease syndrome, allergies, asthma, restenosis, brain injury, AIDS, bone diseases (e.g., osteoporosis), cancer (e.g., lymphoproliferative disorders), congestive heart failure, atherosclerosis and Alzheimer's disease. The IL-1H4 polynucleotides are useful as diagnostic reagents and for chromosome identification. The present sequence represents the IL-1H4 mature
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                                                                                                                                                                       PKVKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPI 83
AAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD 192
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                                                                                                                                                                                                                                                                                                 169;
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milarity 100.0%;
Conservative 0
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RESULT 5 AAY96938

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                                                                                                                                                                                                                         C An isolated nucleic acid molecule encoding an interleukin-1-like polypeptide (IL-11p) that retains one or more activities of the peptide (I from which it is derived, such as the IL-18R binding activity of a human interleukin-1 receptor antagonist-1 (hIL-1Ra1) polypeptide, is new. The nucleic acids may be used in molecular engineering applications, e.g. hybridization assays and chromosome and gene mapping studies, for recombinantly producing the IL-11p polypeptide or for producing gene knock out animals to study the role of the protocols may be used to supplement a patients production of the polypeptide or to rectify mutations that lead to the production of in active peptides). The peptides produced may be used to screen for and produce modulators (e.g. antibodies) of IL-11p protein expression and activity which may be used to treat disorders associated with inappropriate IL-11p expression and activity, such as inflammatory disorders, asthma, arthritis, costeoarthritis, sepsis, acute lung injury, adult respiratory distress syndrome, idiopathic pulmonary fibrosis, ischemic reperfusion disease, psocriasis, grafit versus host disease and/or inflammatory bowel disease.
                                                                                                                                           Query Match
Best Local S
Matches 169
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22-JAN-1999;
13-APR-1999;
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                                                                                                                                                                                                   Sequence
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disease, in
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transplant
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N-PSDB;
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brain injur
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                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                        Claim
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                                                                                                                                                                                                    treating conditions such as chronic and acute inflammation, a, autoimmune diseases (e.g. inflammatory bowel disease, and arthritis), transplant rejection, graft versus host infection, stroke, ischaemia, acute respiratory disease, asthma, restenosis, brain injury, AIDS, bone diseases (e.g. is), cancer, congestive heart failure, atherosclerosis, and s disease, related to either an excess of, or an esssion of, IL-1H4 polypeptide activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     erleukin-1 homologue; IL-1H4; inflammation; septicaemia; disease; inflammatory bowel disease; psoriasis; arthritis; rejection; graft versus host disease; infection; stroke; acute respiratory disease; allergy; asthma; restenosis; ry; AIDS; bone disease; osteoporosis; cancer; heart failure; atherosclerosis; Alzheimer's disease.
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WFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD 192
                                              KGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLES
                                                      KGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLES 143
                                                                                         ages 28-29;
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                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Protein;
                                                                                                                                                88.0%; Score 895; DB 21; 100.0%; Pred. No. 1.5e-96;
                                                                                                                                                                                                                                                                                                                       30pp; English.
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AAY96940
ID AAY96940;
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Human IL-
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hIL-1RalV
KW hIL-1RalV
costeopath
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XW anti-isch
XW gene ther
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CC hybridiz
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                                                                                                                                                                                                                                        Production and the retains one or more activities of the peptide (rom which it is derived, such as the II-18R binding activity of a human interleukin-1 receptor antagonist-1 (hII-18Ral) polypeptide, is new. The nucleic acids may be used in molecular engineering applications, e.g. hybridization assays and chromosome and gene mapping studies, for recombinantly producing the II-11p polypeptide or for producing gene knock out animals to study the role of the protein in metabolism and disease processes (conversely, gene therapy protocols may be used to supplement a patients production of the polypeptide or to rectify mutations that lead to the production of in active peptides). The peptides produced may be used to screen for and produce modulators (e.g. antibodies) of II-11p protein expression and activity which may be used to treat disorders associated with inappropriate II-11p expression and activity, such as inflammatory disorders, asthma, arthritis, costeoarthritis, sepsis, acute lung injury, adult respiratory distress syndrome, idiopathic pulmonary fibrosis, ischemic reperfusion disease, psoriasis, graft versus host disease and/or inflammatory bowel disease.
                                                                                                                                                         Query Match
Best Local S
Matches 169
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22-JAN-1999;
13-APR-1999;
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B; AAA51604
AAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD 192
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interleukin-1-like polypeptide; anti-inflammatory;
.c; anti-arthritic; antimicrobial; respiratory; vaccine;
; dermatalogical; immunomodulatory; gastrointestinal;
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187..189
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90..96
                            /note= 'binding'
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165..169
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154..1
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132..138
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118..12
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/note= "Variable
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58..72
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disease, l
                                                                                                                                                                                                                                                                                                        The present sequence is the human interleukin (IL)-1 homolog zilla4 protein. This protein contains a core structure of 12 beta-strands wound into a beta-barrel, with the beta-stands seperated from each other by loops. The loops between these beta-strands are highly variable among the family members and are believed to be involved in receptor binding. The zilla4 proteins modulate inflammation and other immunological processes and are therefore useful for treatment of arthritis, psoriasis, septic shock, graft-versus-host disease and leukaemia. Other diseases that may be modulated by zilla4 proteins include cancer, anaemia, inflammatory bowel disease, acute and chronic neuropathologies, shock, respiratory disease syndrome, restenosis and acquired immune deficiency syndrome.
                              12-SEP-2000
                                                  AAY95299;
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N-PSDB;
          Human
                                                                       AAY95299
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                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
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DB; AAD00210.
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                                                                      standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sheppard
                                                                                                                                                                                                                                                                                         218 AA;
                                                                                                                                                                                                                                               88.0%;
larity 100.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    2;
                             (first
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binding"
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/note= "Variable
binding"
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170..17
                                                                    Protein;
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Ođ
          zeta
                             entry)
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         splice
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                                                                                                                                                                                                                                               Score 895; DB 21;
Pred. No. 1.5e-96;
); Mismatches 0;
                                                                      B
         variant
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                                                                                                                                                                                                                                                                      The present sequence is that of splice variant TDZ.1 (testis-derived zeta variant) of human interleukin-1 zeta (IL-1 zeta). TDZ.1 mRNA is generated from exons 1, 2, 4, 5 and 6 of the IL-1 zeta locus, and the encoded protein is probably a functional IL-1 like molecule. TDZ.1 mRNA is expressed most strongly in the kidney, skeletal muscle, testis, prostate, ovary, colon, small intestine, liver, placenta, lung, tonsil, foetal liver, lymph node and bone marrow. The invention is directed to novel, purified and isolated IL-1 zeta, its splice variants and xrec2 polypeptides (see AAY95297-301), the nucleic acids (see AAA27918-22) encoding such polypeptides, processes for production of recombinant forms of such polypeptides, and their uses. The polypeptides can be used to study cellular processes such as immune regulation, cell proliferation, cell death, cell migration, cell-to-cell interaction and inflammatory responses, to identify proteins associated with IL-1 zeta, to screen for potential inhibitors, and to prepare antibodies. In particular, they can be used to activate and/or inhibit the induce and/or inhibit the induction of local tissue destruction and fever, inhibit and/or stimulate macrophages and vascular endothelial cells to prostaglandins, nitric oxide synthetase, and metalloproteases, and upregulate and/or inhibit the upregulation of molecules on the surface of vascular endothelial cells.
                                                                                                                                                                                Query Match
Best Local Similarity
Matches 169; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-DEC-1998
10-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 20
                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Isolated interleukin-1 (IL-1) zeta nucleic acids and splice variants TDZ1, TDZ2, TDZ3 and their encoding proteins, useful as probes for identifying genes associated with diseases such as glaucoma, and insulin-dependent diabetes mellitus -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AWWI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 10;
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testis-der
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AAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD 192
                                                            JE,
                                                                                                                         2000-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 11; 87pp; English.
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ived zeta variant; therapy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MUNEX CORP
                                                                                                                                                                                                                                              218 AA;
                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-0112163.
99US-0164675.
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                                                                                                                                                                                                88.0%; Score 895; DB 21; 100.0%; Pred. No. 1.5e-96;
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                                                                                                                                                                                     Mismatches
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inflammation; fever.
                                                                                                                                                                                  0;
                                                                                                                                                                                                                Length 218;
                                                                                                                                                                                     Indels
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AAY91885
ID AAY9
   New mammalian i
for diagnostic
sequence
                                                                                                                      WPI; 200
N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Key
  polyclonal antibodies
acid segment of IL-1-z
AAY91885); and (b) con
AAY91886-903 or AAY919
                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                                                     Binding-site
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plasma copper
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                                 molecule, design
features table,
an isolated or
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                                                                                                                                                                                                                                                                   Domain
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                                                        present
                                                                                                                      2000-283588/24
)B; AAA08513
                                                                        1;
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                                                                                                                                              JС;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          interleukin
                                                                                                                                                             SCHERING CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          interleukin-
nt sequence is an alternative primate interleukin-1 like designated IL-1-zeta. The 12 beta strands, indicated in the table, fold into a beta-trefoil fold. The specification claims ed or recombinant polypeptide that: (a) specifically binds l antibodies generated against at least a 12 consecutive amino ent of IL-1-zeta (see AAY91884) or its allelic variant (see and (b) comprises at least one sequence selected from:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 plasma
                                                                                              interleukin 1 like
c and therapeutic po
                                                                       103-104; 110pp; English.
                                                                                                                                                                             98US-0156966
                                                                                                                                                                                             99WO-US20868
                                                                                                                                                                                                                                                                                                                                                                                                                                     /label-
69..74
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185..20
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                                                                                                                                                                                                                                                                                                                                                                                      100..
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers 58..64
                                                                                                                                                                                                                                                                                                                                                               107
                                                                                                                                                                                                                                                                                                                                                                                                                      76.
                                                                                                                                                                                                                                                   /label= beta
201..204
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154..161
                                                                                                                                                                                                                                                                                  /label=
176..180
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                                                                                                                                                                                                                                                                                                                                                                                                                           /label=
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                                                                                                                                                                                                                                                                                                         label=
                                                                                                                                                                                                                                                                                                                                                                                              'label=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -1 like; IL-1-zeta;
iron; plasma zinc;.
                                                                                                                                                                                                                                                                                  180
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                                                                                                                                                                                                                                                                                                                                 136
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                                                                                                                                                                                                                                                                                                                                                                                              beta_strand_4
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                                                                                                                                                                                                                                                                                                                         beta.
                                                                                                                                                                                                                                                                                                                                        beta_strand_6
                                                                                                                                                                                                                                                                                                                                                                                                              beta_strand
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                                                                                              purposes,
                                                                                                                                                                                                                                                                                                                                                                       to t
                                                                                                      molecule,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 zinc; acute liv
                                                                                                                                                                                                                                                                                                                                                                        the
                                                                                                                                                                                                                                                                                                                                                                                                                             ่ง
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (IL-1-zeta)
                                                                                                                                                                                                                                                                                                                                                                              which is
                                                                                                                                                                                                                                                                                                                                                                       IL-1 receptor
                                                                                              comprises a 128 amino a
                                                                                                                                                                                                                                                                                                                                                                              part
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   liver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         alternative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          inflammation;
                                                                                                                                                                                                                                                                                                                                                                              of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  response;
                                                                                                                                                                                                                                                                                                                                                                   type"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence
                                                                                               a, useful
acid
                                                                                                                                                                                                                                                                                                                                                                              binding
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PKVKNL

NPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPI

Query Match Best Local S Matches 169

88.0%; Score 895; DB 22; larity 100.0%; Pred. No. 1.5e-96; Conservative 0; Mismatches 0;

Length 218;

Indels

Gaps

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169; S

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RESULT 11
AAG68116
ID AAG68116
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Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            segment is chosen from AAY91907-18 or AAY91919-21. IL-1-zeta is likel to play a role in systemic inflammatory reactions, such as fever, hypoglycemia, reduced plasma iron and zinc, the acute response of the liver, and increase plasma copper. IL-1-zeta binding compounds (comprising antigen binding sites) and IL-1-zeta polypeptides are also useful for both diagnostic and therapeutic purposes.
                    The present sequence represents a human interleukin 1 (IL-1) family protein having a combining affinity to a receptor of a protein of human IL-1 family higher than Tango-77. The protein is useful for the development of diagnostic, treating and/or preventive agents for various diseases.
                                                                                                                                                                                                                                                                                                                           Human; interleukin identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                            An
                                                                                                                                                  WPI; 2001-609968/70.
N-PSDB; AAI71179.
                                                                                                                                                                                                                                                                                                                                                            Human inter
                                                                                                                                                                                                                                                                                                                                                                                                          AAG68116;
Sequence
                                                                                                                                                                                                         09-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                   22-JAN-2002
                                                                                            Claim
                                                                                                                  treatment
                                                                                                                                                                                                                                                       28-AUG-2001
                                                                                                                                                                                   (KYOW ) KYOWA HAKKO KOGYO KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         170
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                                                                                                                             IL-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD 192
AAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sapiens.
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                                                                                                              family protein,
it agents -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPI 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88.0%; Score 895; DB 21; ilarity 100.0%; Pred. No. 1.5e-96; Conservative 0; Mismatches 0;
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  218 AA;
                                                                                                                                                                                                                                                                                                                                                            leukin 1 family protein SEQ ID NO:2.
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                                                                                        30; 38pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA;
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                                                                                                                                                                                                                                                                                                                                      IL-1;
                                                                                                                            used for the development of diagnostic
                                                                                                                                                                                                                                                                                                                                      growth factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                 218
                                                                                                                                                                                                                                                                                                                                      Tango-77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 218;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IL-1-zeta is likely
                                                                                                                                                                                                                                                                                                                                       diagnosis;
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                                                                                                                               and
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RESULT 12
AAB85136
ID AAB85
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Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Key
Peptide
                                                 The invention provides an isolated interleukin-1 homologue, IL-1H4 polypeptide. The IL-1H4 polypeptide can be expressed by standard recombinant methodology. The IL-1H4 polypeptide, polynucleotides and modulators are useful for treating chronic and acute inflammation, septicemia, autoimmune diseases (e.g., inflammatory bowel disease, psoriasis and arthritis), transplant rejection, graft versus host disease, infection, stroke, ischemia, acute respiratory disease syndrome, allergies, asthma, restenosis, brain injury, AIDS, bone diseases (e.g., osteoporosis), cancer (e.g., lymphoproliferative disorders), congestive heart failure, atherosclerosis and Alzheimer's disease. The IL-1H4 polypeptide.
                                                                                                                                                                                                                                                              Novel Interleukin-1 homolog, IL-1H4, for treating chronic and acute inflammation, septicemia, autoimmune diseases, transplant rejection, graft versus host disease, stroke, ischemia, allergy and asthma -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene
                                                                                                                                                                                                                                                                                                                                                                                         (SMIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cleavage-site Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Interleukin-1; IL-1H4; antiinflammatory; antibacterial; antiallergic; immunosuppressive; antipsoriatic; antiarthritic; cytostatic; antiHIV; cerebroprotective; antiasthmatic; vasotropic; vulnerary; osteopathic; immunostimulant; antiarteriosclerotic; nootropic; neuroprotective;
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                          Sequence
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                                                                                                                                                                                                                                       Examples;
                                                                                                                                                                                                                                                                                                                         N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interleukin-1 homologue (IL-1H4)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      therapy;
                                                                                                                                                                                                                                                                                                                        2001-389949/41
)B; AAF84120.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens
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                                                                                                                                                                                                                                                                                                                                                                                          SMITHKLINE BEECHAM CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard;
                                                                                                                                                                                                                                     Page
                                                                                                                                                                                                                                                                                                                                                                 McDonnell
                           218
                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US32521.
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/note= "signal pepti
20..21
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88.0%;
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                                                                                                                                                                                                                                     English.
                                                                                                                                                                                                                                                                                                                                                              Young PR;
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895;
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Length
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LNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPI 83

Indels

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KGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLES

169;

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RESULT 13
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Matches 169
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                                                                                                                                                                                                                   WPI; 2001-2
N-PSDB; AAC
                                                                                                                                                                         for gene
killer ac
                                                               This sequence represents an interleukin-1 (IL-1)-related polypeptide. IL-1 related polypeptide was isolated from HPB-MLT cells, FERM-BP-2430, an established human T-cell line. IL-1 related polypeptide is useful for inhibiting natural killer (NK) activity, which is related to the immune system of mammals. The DNA encoding the IL-1 related polypeptide is useful in gene therapy of patients in need of NK activity inhibition and others suffering from immunodeficiency.
                                                                                                                                                                                                                                                                                                                                                                                Homo
                                                                                                                                                                                                                                                                                                               11-OCT-2000;
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                                                                                                                                                                                                                                                                                                                                                           EP1092773-
                                                                                                                                                                                                                                                                                                                                                                                                              Interleukin-1-related polypeptide; HPB-MLT cell; T-cell; inhibition; natural killer activity; immune system; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-JUN-200
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                                           Sequence
                                                                                                                                                     Claim
                                                                                                                                                                                             New human
                                                                                                                                                                                                                                                                                            15-OCT-199
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C85680.
                                                                                                                                                                                                                                                  Nukada
                                                                                                                                                                       interleukin-1-related polypeptide and polynucleotide, useful
herapy and in developing drugs as regulators of natural
ivity, are capable of inhibiting natural killer activity -
                                                                                                                                                   age 12; 15pp; English.
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2
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                                           218 AA;
88.0%;
.larity 100.0%;
Conservative
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                                                                                                                                                                                                                                                   Yamamoto K,
 Score 895; DB 22; ; Pred. No. 1.5e-96; 0; Mismatches 0;
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hes 0;
                     Length
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Matches 168
                                                                                                                                            The present sequence is a variant of human interleukin (IL)-1 c homolog zilla4 protein, consisting of Asp in place of Glu at position 200. The replacement of Glu (200) with Asp results in attenuation of pro-inflammatory activity of zilla4 protein. The zilla4 proteins modulate inflammation and other immunological processes and are therefore useful for treatment carthritis, psoriasis, septic shock, graft-versus-host disease are leukaemia. Other diseases that may be modulated by zilla4 protein include cancer, anaemia, inflammatory bowel disease, acute-and carquired immune deficiency syndrome.

Note: The present sequence is not shown in the specification but derived from human zilla4 protein sequence shown in figure-2 (AF)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   psoriasis;
anaemia; ir
                                                                                                                                                                                                                                                                                                                                                   treatment
disease, ]
                                                                                                                                                                                                                                                                                                                                                                                                                            West
                                                                                                                                                                                                                                                                                                                           Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    chronic neuropathology; respiratory disease syndrome; restenosis; acquired immune deficiency syndrome; AIDS; antiinflammatory; cytcanti-arthritic; anti-psoriatic; antibacterial; immunosuppressive; anti-anaemic; neuroprotective; vasotropic; variant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human zilla4-E200D variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAY71084 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200024899-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           anti-human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-SEP-2000
                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                             Immunomodulatory interleukin-1 homolog zilla4 proteins, useful for treatment of e.g. arthritis, psoriasis, septic shock, graft-versus
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ( CYMO )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-OCT-1998;
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                                                                       / Match 87.7%;
Local Similarity 99.4%;
nes 168; Conservative
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                        LLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZYMOGENETICS
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; septic shock; graft-versus-host
inflammatory bowel disease; acute
                                                                                                                                                                                                                                                                                                                          Page
                                                                                                                                                                                                                                                                                                                                                   leukemia
                                                                                                                                                                                                                                                                                                                                                                                                                            Sheppard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immunodeficiency virus;
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                                                                                                                                                                                                                                                                                                                                                                                                                             2;
                                                                     Score 892; DE Pred. No. 3.3e
1; Mismatches
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                                                                       ; DB 21;
3.3e-96;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; inflammation; ar
t disease; leukaem
e neuropathology;
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                                                                                                                                                                                    acute and chronic e, restenosis and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       shock;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cytostatic;
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disease, ]
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N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human interleukin-1; IL-1; zilla4 protein; inflammation; arthritis; psoriasis; septic shock; graft-versus-host disease; leukaemia; cancer; anaemia; inflammatory bowel disease; acute neuropathology; shock; chronic neuropathology; respiratory disease syndrome; restenosis; acquired immune deficiency syndrome; AIDS; antiinflammatory; cytostatic; anti-arthritic; anti-psoriatic; antibacterial; immunosuppressive; anti-anaemic; neuroprotective; vasotropic; anti-human immunodeficiency virus; HIV.
                                                                                                                                                   The present sequence is a variant of human interleukin (IL)-1 homolog zilla4 protein designated zilla4-E200K. The replacement of Glu (200) with Lys results in change in activity from agonist to antagonist. The zilla4 proteins modulate inflammation and other immunological processes and are therefore useful for treatment of arthritis, psoriasis, septic shock, graft-versus-host disease and leukaemia. Other diseases that may be modulated by zilla4 proteins include cancer, anaemia, inflammatory bowel disease, acute and chroneuropathologies, shock, respiratory disease syndrome, restenosis acquired immune deficiency syndrome.
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                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                         Claim 8; Page 77-78; 88pp; English.
                                                                                                                                                                                                                                                                                                                                                            Immunomodul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ZYMO)
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                                                                                          Local
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                                                                                                        Match
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                                                                                                                                                                                                                                                                                                                                                                                                     2000-
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                                                                                                                                                                                                                                                                                                                                 dulatory interleukin-1 homolog zilla4 proteins, useful for of e.g. arthritis, psoriasis, septic shock, graft-versus-host leukemia -
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                                                                            87.6%; nilarity 99.4%; Conservative 1
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                                                                                                                                   218 AA;
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                                                                            Score 891; DB 21; Pred. No. 4.3e-96; 1; Mismatches. 0;
                                                                                                       Length 218;
                                                                              Indels
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ALIGNMENTS

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RESULT 1
JC7104
interleukin-1 receptor antagonist - human
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 21-Jul-2000
C; Accession: JC7104
R; Mulero, J.J.; Pace, A.M.; Nelken, S.T.; Loeb, D.B.; Correa, T.R.; Drmanac, R.;
Biochem. Biophys. Res. Commun. 263, 702-706, 1999
A; Title: IL1HY1: A novel interleukin-1 receptor antagonist gene.
A; Reference number: JC7104; MUID:99443727; PMID:10512743
A; Accession: JC7104
A; Molecule type: mRNA
A; Residues: 1-155 < MUL>
A; Cross-references: GB:AF186094; NID:g6049804; PIDN:AAF02757.1; PID:g6049805
C; Genetics:
A; Gene: 11hy1
A; Map position: 2g14
C; Keywords: macrophage
RESULT 2
A44610
interleukin-1 receptor antagonist precursor - mouse
N;Alternate names: IL-1Ra
C;Species: Mus musculus (house mouse)
C;Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #te:
C;Accession: A44610; B40956; A49031; I56106; I52970
R;Matsushime, H.; Roussel, M.F.; Matsushima, K.; Hishii
Blood 78, 616-623, 1991
A;Title: Cloning and expression of murine interleukin-A;Reference number: A44610; MUID:91316273; PMID:183049:
A;Accession: A44610
A;Molecule type: mRNA
A;Residues: 1-178 <MAT>
A;Cross-references: GB:M64404; NID:g198296; PIDN:AAA39:
R;Eisenberg, S.P.; Brewer, M.T.; Verderber, E.; Heimda
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                                                                                                                                                                                    994 #sequence_revision 09-Sep-1994 #text_change 16-Jul-1999 610; B40956; A49031; I56106; I52970 ; Roussel, M.F.; Matsushima, K.; Hishinuma, A.; Sherr, C.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAHPGWFICTSCNCNEPVGVTDKFEN 169
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Pred. No. 4.2e-09;
7; Mismatches 47;
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              PIDN:AAA39277.1; E.; Heimdal, P.;
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              PID:g198297
Brandhuber, B.J.;
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RESULT 3
A54377
interleukin-1 receptor antagonist secreted form precursor - rab
C; Species: Oryctolagus cuniculus (domestic rabbit)
C; Date: 06-Oct-1994 #sequence_revision 18-Nov-1994 #text_change
C; Accession: A54377; I46729
R; Cominelli, F.; Bortolami, M.; Pizarro, T.T.; Monsacchi, L.; I
J. Biol. Chem. 269, 6962-6971, 1994
A; Title: Rabbit interleukin-1 receptor antagonist. Cloning, exp
A: Reference number: A54377; MUID: 94165101; PMID: 7509813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Gene: IL-1rn
A; Introns: 40/2
C; Superfam1ly:
C; Keywords: cyt
F; 1-26/Domain:
F; 27-178/Produc
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A; Residues: 23-178 <SHU>
A; Cross-references: GB:S64082; NID:g238584; PIDN:AAB20265.1; PID:g238585
A; Experimental source: peritoneal macrophages, ICR strain
A; Note: sequence extracted from NCBI backbone (NCBIN:64082, NCBIP:64085)
R; Zahedi, K.; Seldin, M.F.; Rits, M.; Ezekowitz, R.B.; Whitehead, A.S.
J. Immunol. 146, 4228-4233, 1991
A; Title: Mouse IL-1 receptor antagonist protein: Molecular characterizatia; A; Reference number: I56106; MUID:91250712; PMID:1828262
A; Status. T. 156106
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A; Cross-references: GB:L32838;
C; Genetics:
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;Residues:
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Superfamily: interleukin-1
Keywords: cytokine receptor
1-26/Domain: signal sequence
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Title: Cloning, heterologous expression Reference number: A49031; MUID:92037824;
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Accession: B40956
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Residues: 7-178 <ELS-
Cross-references: GB:M63100; NID:91.
Cross-references: GB:M63100; NID:91.
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    type: 1: 1-177
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Tracey, D.E.;
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Mismatches 64;
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Bienkowski, M.
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A; Accession: A39386
A; Molecule type: mRNA
A; Residues: 1-3, 25-180 <HAS>
A; Cross-references: GB: M55646; N
C; Comment: For an alternative sp
C; Genetics:
                                                                                      A; Map position:
C; Superfamily:
C; Keywords: alt
F; 1-180/Product
F; 1-3, 25-180/Pr
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C; Species: Ho
C; Date: 28-Fe
C; Accession:
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A;Experimental s
A;Note: sequence
R;Goto, F.; Goto
                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: EMBL:X84348; NID:g1008970; PIDN:CAA59087.1; PID:g1008971 R;Haskill, S.; Martin, G.; Van Le, L.; Morris, J.; Peace, A.; Bigler, C.F.; Proc. Natl. Acad. Sci. U.S.A. 88, 3681-3685, 1991 A;Title: cDNA cloning of an intracellular form of the human interleukin 1 re. A;Reference number: A39386; MUID:91219436; PMID:1827201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: GB:D21832; NID:g425787; PIDN:BAA04860.1; PID:g4 C;Superfamily: interleukin-1 C;Keywords: cytokine receptor; extracellular protein; glycoprotein F;1-25/Domain: signal sequence #status predicted <SIG>F;109/Binding site: carbohydrate (Asn) (covalent) #status predicted
                                                                                                                                                                                             ₹,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R; Muzio, M.; Polentarutti, N.; J. Exp. Med. 182, 623-628, 1995
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A;Title: Interleukin-1 recetor antagonist in inflammatory exudate cells of A;Reference number: I46729; MUID:93052512; PMID:1427977
A;Accession: I46729
                                                                                                                                                                                                                     A; Gene: GDB: IL1R
                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Residues: 1-180 < A; Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Status: translat
A; Molecule type: r
A; Residues: 1-177
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A; Accession: I37
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Query Match
Best Local
Matches 4
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                                                                                                          /Product
                                               Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                references: GB:S68977; NID:g545740; PIDN:AAB30093.1; PID:g545741 lmental source: colon tissue sequence extracted from NCBI backbone (NCBIN:144168, NCBIP:14416 F.; Goto, K.; Miyata, T.; Ohkawara, S.; Takao, T.; Mori, S.; Fur. 1997 77, 235-244, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
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                                                                                         180/Product:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -VPDKNYIRPEIFFALASSLSSASAEKGSPILLGVSKGEFCLYCDK--DKGQSHPSLQLK 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SETACRPSGKRPCR------MQAFRIWDVNQKTFYLRNNQLVAGYLQGPNAKLEERID 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AVNITDLGKNKEQDKR-FTFIRSNSGPTTTFESASCPGWFLCTALEADQPVSLTN 160
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                                                                                alternative splicing; cytokine receptor duct: interleukin-1 receptor antagonist, long intracellular splice 0/Product: interleukin-1 receptor antagonist, short intracellular s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 I receptor antagonist, long intracellular interleukin-1 receptor antagonist, short i lomo sapiens (man) 'eb-1992 #sequence revision in tracellular interleukin-1
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interleukin-
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  14.8%; ilarity 28.0%; Conservative 2
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4.2-2q14.2
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26.9%; Pred
25; /
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                     Score 150.5;
Pred. No. 6.
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  .3e-07;
es 64;
                                          DB 2;
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                                          Length 180;
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ori, S.; Furukawa,
                                                                                                                                                                                                                                                                                 PID: g186292
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       53;
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                                                                                   splice
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DRRET-

ETKGKNSFKKRLRGPKVKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIR-

29;

Mismatches

Indels

25;

Gaps

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A; Residues: 26-52;70
A; Experimental source
C; Comment: For an al-
C; Genetics:
A; Gene: GDB: IL1RN
A; Cross-references:
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A30368
interleukin-1 receptor antagonist secreted form C; Species: Homo sapiens (man)
C; Date: 07-Jun-1990 #sequence_revision 07-Jun-1900; C; Date: 07-Jun-1990 #sequence_revision 07-Jun-1900; C; Accession: A40956; I37894; A30368; S08160; S08160;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Residue
A; Cross-r
R; Hannum,
Nature 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1-177 <CAR>
A; Cross-references: GB: X53296; NID: g32578; PIDN: CAA37386.1; PID: g32579
A; Note: parts of this sequence, including the amino end of the mature protein,
R; Eisenberg, S.P.; Evans, R.J.; Arend, W.P.; Verderber, E.; Brewer, M.T.; Hannu
Nature 343, 341-346, 1990
A; Title: Primary structure and functional expression from complementary DNA of
A; Reference number: S08160; MUID: 90136921; PMID: 2137201
A; Accession: S08160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Status: not compared a; Molecule type: mRNA A; Residues: 1-177 <EI2>
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A;Title: Purification, cloning, expression and A;Reference number: A30368; MUID:90220867; PMII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Accession: A40956; I37894; A30368; S08160; S08159; A378; R;Eisenberg, S.P.; Brewer, M.T.; Verderber, E.; Heimdal, Proc. Natl. Acad. Sci. U.S.A. 88, 5232-5236, 1991
A;Title: Interleukin 1 receptor antagonist is a member of A;Reference number: A40956; MUID:91271363; PMID:1828896
A:Accession: A40956
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A;Cross-references: GB:M63099; NID:g186385; PIDN:AAB41943.1; PII
R;Lennard, A.; Gorman, P.; Carrier, M.; Griffiths, S.; Scotney,
Cytokine 4, 83-89, 1992
                                                                                  A; Molecule type: protein
A; Residues: 26-52; 70-77; 122-127; 170-175
A; Experimental source: culture medium, I
C; Comment: For an alternative splice for
                                                                                                                                                                                                     A; Molecule type: protein
A; Residues: 26-75; 97-108; 110-116; 120-131; 163-176
R; Bienkowski, M.J.; Eessalu, T.E.; Berger, A.E.;
J. Biol. Chem. 265, 14505-14511, 1990
A; Title: Purification and characterization of int
A; Reference number: A37822; MUID: 90354444; PMID: A; Accession: A37822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cytokine 4, 83-89, 1992
A; Title: Cloning and chromosome mapping of
A; Reference number: I37894; MUID: 92338323;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Qγ
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A; Residues: 1-177 <LEN>
A; Cross-references: EMB
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A; Residues: 1-177
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Title: Interleukin-1 receptor antagonist Reference number: S08159; MUID:90136920; Accession: S08159
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                                                                      medium, rem
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                                                                                         see PIR:A39386
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Truesdell,
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dal, P.;
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Laborde, A.L.; Sl
I.M.; Heinrikson,
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                                                                                                                                                                                                                                                                                                                          J.A.;
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                  DNA Seq. 1, 423-426, A; Title: Nucleotide sea; Reference number: S: A; Accession: S23010
                                                                                                                                                                interleukin-1 beta
N; Alternate names
C; Species: Ovis o
C; Date: 08-Jun-19
C; Accession: S230
                                                                                                                                                                                                                                                                                                                     RESULT
S23010
                                                                                                                                    R; Seow, H.F.;
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C;Species: Rattus norvegicus (Norway rat)
C;Date: 20-Mar-1992 #sequence_revision 20-Mar-1992 #text_change 16-Jul-1999
C;Accession: C40956
R;Eisenberg, S.P.; Brewer, M.T.; Verderber F . ...
A; Ti+10 ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Map position: 2q14.2-2q14.2
A;Introns: 39/2; 69/1; 106/3
C;Superfamily: interleukin-1
C;Keywords: alternative splicing; cytokine receptor; extracellular proteif;1-25/Domain: signal sequence #status predicted <SIG>F;26-177/Product: interleukin-1 receptor antagonist #status experimental F;26-177/Binding site: carbohydrate (Asn) (covalent) #status experimental
                                                                                                                                                                                                                                                                                                                       R;Eisenberg, S.P.; Brewer, M.T.; Verderber, E.; Heimdal, P
Proc. Natl. Acad. Sci. U.S.A. 88, 5232-5236, 1991
A;Title: Interleukin 1 receptor antagonist is a member of
A;Reference number: A40956; MUID:91271363; PMID:1828896
A;Accession: C40956
A;Status: preliminary
A;Residues: 1-178 <EIS>
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A; Cross-references: GB:M6310;
C; Superfamily: interleukin-1
C; Keywords: cytokine recepto:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESAA 145
ACPGWF
                                                                LGIHGG
                                                                                                 LGVSKG
                                                                                                                                    FRIWDT
                                                                                                                                                                    FSIHDQDHKVLVLDSGNLIA----
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LCTTLEADHPVSLTN 161
                              ICTSCNCNEPVGVTD
                                                               KLCLSCVKSGDDT - - KLQLEEVNITDLNKNKEEDKR - FTFIRSETGPTTSFESL
                                                                                                EFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESA 144
                                                                                                                                  NQKTFYLRNNQLIAGYLQGPNTKLEEKIDMVPIDF--
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Llarity 29.18;
Conservative 20
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29.3%;
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                                                                                                                                                                                                 Score 144.5; DB 2;
Pred. No. 2.3e-06;
); Mismatches 53;
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                                                                                                                                                                   --VPDKNYIRPEIFFALASSLSSASAEKGSPIL 84
                                                                                                                                                                                                                                                                                                        PIDN: AAA41434.1;
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Rothel, J.S.; David, 23-426, 1991

М.J.;

Wood,

P.R.

sequence of ovine macrophage interleukin-1
s23010; MUID:92119335; PMID:1840515

beta

CDNA

mRNA

eta precursor - sheep
es: hematopoietin-1; IL-1 beta
orientalis aries, Ovis ammon aries
1994 #sequence_revision 22-Nov-1996
19010; S43047; S13092; B61246

(domestic sheep)
#text_change 15-Oct-1999

<SEO>

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A; Molecule type: mRNA
A; Residues: 1-13,'C',15-54,'K',56-61,'S',63,'A',65-144,'L',146-266
A; Residues: 1-13,'C',15-54,'K',56-61,'S',63,'A',65-144,'L',146-266
A; Residues: 1-13,'C',15-54,'K',56-61,'S',63,'A',65-144,'L',146-266
A; Cross-references: EMBL:X54796
A; Note: the authors translated the codon AGT for residue 62 as Arg R; Note: the authors translated the codon AGT for residue 62 as Arg R; Andrews, A.E.; Barcham, G.J.; Brandon, M.R.; Nash, A.D.
Immunology 74, 453-460, 1991
A; Title: Molecular cloning and characterization of ovine IL-1alpha A; Reference number: A61246; MUID:92120716; PMID:1769692
A; Accession: B61246
A; Molecula type: mRNA
A; Residues: 1-144,'L',146-266 < AND>
C; Comment: This protein lacks a conventional signal sequence for p ved form of interleukin-1beta, unlike interleukin 1-alpha, is inac C; Comment: Interleukin-1beta precursor is less heavily myristoylat
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  C; Comment:
C; Superfami
                                                                                                                                                        N; Alternate names: hematopoietin-1; IL-1 beta
C; Species: Sus scrofa domestica (domestic pig)
C; Date: 14-Jul-1994 #sequence_revision 22-Nov-1996 #text
C; Accession: JN0724
R; Huether, M.J.; Lin, G.; Smith, D.M.; Murtaugh, M.P.; 1
Gene 129, 285-289, 1993
A; Title: Cloning, sequencing and regulation of an mRNA (
A; Reference number: JN0724; MUID: 93314975; PMID: 8325511
A; Accession: JN0724
                                                                                         A; Molecule type: mRNA
A; Residues: 1-267 <HUE>
A; Cross-references: GB: M86725; NID: g164607;
A; Experimental source: alveolar macrophage
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C;Superfamily: interleukin-1
C;Keywords: cytokine; immunoregulation;
F;114-266/Product: interleukin-1 beta #
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                                                         ; Comment:
                                                                                                                                                                                                                                                           Alternate names: hematopoietin-1; IL-1 beta; Species: Sus scrofa domestica (domestic pig); Date: 14-Jul-1994 #sequence_revision 22-Nov-1996; Accession: JN0724
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Best Local S
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                                                       Comment: This protein Comment: This protein
Superfamily:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KFSIHDQDHKVLVLDSG----NLIAVPDKNYIRPEIFFALASSLSSASAEKGSPILLGVSK 89
  Interleukin-1beta
ly: interleukin-1
                                  This protein lacks a conventional signal sequence interleukin-lbeta, unlike interleukin 1-alpha, is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              39;
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Similarity 29.5%;
39; Conservative
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43047
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                                                                          is a pleiotropic
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3; PIDN:CAA38566.1;
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ily myristoylated
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                                     e for protein is inactive.
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C; Keywords: cyto F; 115-267/Produc F; 77/Binding sit
                                                              A; Molecule type: mRNA
                            C; Comment: Interleukin
C; Superfamily: interle
C; Keywords: cytokine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C; Accessing (R; Maliszewski, C
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es: hematopoietin-1; IL-1 beta
primigenius taurus (cattle)
1989 #sequence_revision 31-Mar-1989 #text_change 22-Jun-1999
                                                          interleukin-1
                                                                                             rleukin-1beta precursor is less heavily myristoylated than interleukin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R.; Baker, P.E.; Schoenborn, M.A.; Davis, B.S.; Cosman, D.; Gillis, 429-437, 1988
sequence and expression of bovine interleukin 1-alpha and interleuk: A94695; MUID:88318652; PMID:3261832
interleukin-1 beta #status predicted
                              immunoregulation; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11.8%;
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                              lymphokine; macrophage;
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                                                                                                                                                                                                                     KFSIHDQDHKVLVLDSGNLIAVPD--KNYIRPEIFFALASSLSSASAEKGSPILLGVSKG 90
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scrofa domest
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domestica
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pig)
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A; Fiten, P.;
Luchem. 217, 45-52, 1:
A; Reference number: S38373; MUI
A; Accession: S38373
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-267 < VANTA; Cross-reference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C; Date: 20-May-1994 #sec
C; Accession: S38373
R; Vandenbroeck, K.; Fite
Eur. J. Biochem. 217, 45
A; Title: Gene sequence,
A; Reference number: S383
                                                                 ved form of
C;Comment: I
C;Genetics:
                                                                            A; Residues: 118-209 C: C; Comment: This protein lacks a form of interleukin-1beta,
A; Gene: IL-1-beta
C; Superfamily: interleukin-1
C; Keywords: cytokine; immuno
F; 118-269/Product: interleuk
                                                                                                                                                                               A; Cross-references: GB: X04964; NID: g52666; R; Daumy, G.O.; Wilder, C.L.; Merenda, J.M.; FEBS Lett. 278, 98-102, 1991
A; Title: Reduction of biological activity (A; Reference number: S13029; MUID: 91130610;
                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 1-269 <TEL>
                                                                                                                                                                                                                                                                                     R;Telford, J.L.; Macchia, G.; Massone, A.; Carinci, V.; Nucleic Acids Res. 14, 9955-9963, 1986
A;Title: The murine interleukin 1-beta gene: structure A;Reference number: A24719; MUID:87117546; PMID:3492706
A;Accession: A24719
                                                                                                                                                                                                                                                                                                                                        A;Cross-references
R;Telford, J.L.; M
Nucleic Acids Res.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N;Alternate names: hematopoietin-1; IL-1 beta C;Species: Mus musculus (house mouse) C;Date: 26-Jul-1996 #sequence_revision 22-Nov-C;Accession: I55969; A24719; S13029 R;Gray, P.W.; Glaister, D.; Chen, E.; Goeddel, J. Immunol. 137, 3644-3648, 1986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT
                                                                                                                                           A;Status: preliminary A;Molecule type: prot
                                                                                                                                                                       A; Reference number: A; Accession: $13029
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Residues: 1-269 <RES>
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Superfamily:
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Immunol. 137,
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                                                                                                                           type: protein 118-269 <DAU>
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                                                                                                                                                                                                                                                                                                                                                                                                                                   I55969
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37, 3644-3648,
    ie; immunoregulation;
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Merenda, J.M.;
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Carinci, V.; Palla,
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A; Title: Human interleuk.
A; Reference number: A290:
A; Accession: A29019
A; Molecule type: DNA
A; Residues: 1-269 <BEN>
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A; Reference number:
A; Accession: A93361
A; Molecule type: mRN
A; Residues: 1-269 < M
                                A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-5, 'K', 7-19, 'H', 21-110, 'Q', 112-176, 'A', 178-213, 'P', 215-269 < A; Residues: 1-5, 'K', 7-19, 'H', 21-110, 'Q', 112-176, 'A', 178-213, 'P', 215-269 < A; Residues: 1-5, 'K', 7-19, 'H', 21-110, 'Q', 112-176, 'A', 178-213, 'P', 215-269 < A; Residues: 15217; MUID: 87156769; PMID: 3493774
A; Reference number: 152217; MUID: 87156769; PMID: 3493774
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R; Webb, A.C.; Dinarello,
Adv. Gene Technol. 22, 3
A; Title: Nucleotide seque
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A;Accession: A94023
A;Accession: A94023
A;Molecule type: mRNA
A;Residues: 1-5,'K',7-269 <AUR>
A;Residues: 1-5,'K',7-269 <AUR>
A;Cross-references: GB:K02770; NID:g186268; PIDN:AAA36106.1; P.R;March, C.J.; Mosley, B.; Larsen, A.; Cerretti, D.P.; Braedt, Nature 315, 641-647, 1985
A;Title: Cloning, sequence and expression of two distinct human
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A; Residues: 1-5, 'K', 7-269 <CLA>
A; Residues: 1-5, 'K', 7-269 <CLA>
A; Ross-references: GB: X04500; NID: g33788
A; Note: the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the DNA sometimes of the mRNA sequence had codon AAG for 6-Lys, the matter had been sequenced had codon AAG for 6-Lys, the matter had been sequenced had codon AAG for 6-Lys, the matter had been sequenced had codon AAG for 6-Lys, the matter had been sequenced had codon AAG for 6-Lys, the matter had been sequenced had codon AAG for 6-Lys, the matter had been sequenced had codon AAG for 6-Lys, the matter had been sequenced had codon at the matter had been sequenced had b
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Pred. No. 0.027;
29; Mismatches 71;
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A; Accession: b2/010
A; Molecule type: protein
A; Residues: 117-123,'x',125-126,'x',128 <2SE>
R; Stevenson, F.T.; Bursten, S.L.; Fanton, C.; Locksley, R.M.; Proc. Natl. Acad. Sci. U.S.A. 90, 7245-7249, 1993
A; Title: The 31-kDa precursor of interleukin lalpha is myrist A; Reference number: A4829; MUID: 93348250; PMID: 8346241
A; Contents: annotation; myristylation of lysines
R; Nanduri, V.B.; Hulmes, J.D.; Pan, Y.C.E.; Kilian, P.L.; Stellochim. Biophys. Acta 1118, 25-35, 1991
A; Title: The role of arginine residues in interleukin 1 recept A; Reference number: $19608; MUID: 9210334; PMID: 1837236
A; Contents: annotation; type 1 IL-1 receptor interaction site A; Note: modification of Arg-120 by phenylglyoxal blocks recept R; Clore, G.M.; Gronenborn, A.M.
Submitted to the Brookhaven Protein Data Bank, January 1991
A; Reference number: A50049; PDB: GIIB
A; Contents: annotation; conformation by (13)C- and (1)H-NMR, R; Clore, G.M.; Wingfield, P.T.; Gronenborn, A.M.
Biochemistry 30, 2315-2323, 1991
A; Reference number: A46675; MUID: 91159409; PMID: 2001363
A; Contents: annotation; (1)H-NMR structural determination R; Hazuda, D.J.; Strickler, J.; Simon, P.; Young, P.R.
J. Biol. Chem. 266, 7081-7086, 1991
A; Reference number: A39774; MUID: 91201363; PMID: 2016316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R; Finzel, B.C.; Watenpaugh, K.D.; Einspahr, H.M. submitted to the Brookhaven Protein Data Bank, December 1989
A; Reference number: A50016; PDB:111B
A; Contents: annotation; X-ray crystallography, 2.0 angstroms, residues 119
R; Finzel, B.C.; Clancy, L.L.; Holland, D.R.; Muchmore, S.W.; Watenpaugh, F. Mol. Biol. 209, 779-791, 1989
A; Title: Crystal structure of recombinant human interleukin-1beta at 2.0 angstroms
A; Reference number: A44666; MUID:90064532; PMID:2585509
A; Contents: annotation; X-ray crystallography, 2.0 angstroms
C; Comment: This protein lacks a conventional signal sequence for protein ved form of interleukin-1beta, unlike interleukin 1-alpha, is inactive.
C; Comment: Interleukin-1beta precursor is less heavily myristoylated than
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Blood 71, 962-968, 1988
A;Title: Effects of hematopoietin-1
A;Reference number: A90732; MUID:88;
A;Accession: B27616
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A;Map position: 2q13
A;Introns: 16/2; 33/
C;Superfamily: inter
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Cross-references:
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Akad. Nauk SSSR 309, 10(
le: [Cloning of the cDNA
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Lomakin, I.
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interleukin-1 beta
C; Species: Equus
C; Date: 28-Oct-19
C; Accession: JC56
R; Kato, H.; Youn,
Gene 177, 11-16,
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JC5646
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A; Residues: 1-404 < JAC>
A; Residues: 1-404 < JAC>
A; Cross-references: EMBL: Z21487; NID: g311665; PID: g311682
R; Bussereau, F.; Demolis, N.; Jacquet, M.; Mallet, L.
submitted to the Protein Sequence Database, August 1994
A; Reference number: S46054
A; Accession: S46077
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S34031
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C; Keywords: trai
F; 22-45/Domain:
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A; Residues: 1-404 <BUS>
A; Cross-references: EMBL: 236074; NID: g536582; PID: g536583;
R; Bussereau, F.; Mallet, L.; Gaillon, L.; Jacquet, M.
Yeast 9, 797-806, 1993
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Title:
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Accession: S34031
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sion: S34
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                Youn,
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                            1 beta - horse
quus caballus (domestic horse)
ct-1997 #sequence_revision 28-Oct-1997
JC5646
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les: protein YBR1445; protein YBR205w
haromyces cerevisiae
1993 #sequence_revision 30-Sep-1993 #text_change 07-May-1999
4031; S46077; S34928
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                                                                                                                                                                                                                                                                                                                                                       8.9%; Score 91; DB 2; Length 404; llarity 22.8%; Pred. No. 0.76; Conservative 20; Mismatches 58; Indels
   H.Y.; Ohashi,
1996
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                 T.; Watari,
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                 T.; Goitsuka,
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                R.;
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                Tsujimoto, H.;
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                 Hasegawa
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R;Cannon, J.G.; Clark, B.D.; Wingfield, P.; Schmeissner, U.; Lo J. Immunol. 142, 2299-2306, 1989

A;Title: Rabbit IL-1. Cloning, expression, biologic properties, A;Reference number: A30584; MUID:89176242; PMID:2784458

A;Recession: A30584

A;Molecule type: mRNA

A;Residues: 1-268 <CAN>
A;Cross-references: GB:M26295; NID:g516632; PIDN:AAA31373.1; PIR:Young, P.R.; Sylvester, D.

Protein Eng. 2, 545-551, 1989

A;Title: Cloning of rabbit interleukin-1 beta: differential evolutions of rabbit interleukin-1 beta: JU0082

A:Molecule type: mBNA

A:Accession: JU0082
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A; Recession: JC5646
A; Molecule type: mRNA
A; Residues: 1-214 <KAT>
A; Cross-references: DDBJ:D42165; NC; Comment: This protein mediates a synthesis by hepatocytes, and stim C; Superfamily: interleukin-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interleukin-1 beta precursor - rabbit

N; Alternate names: hematopoietin-1; IL-1 beta; lymphocyte prolif

C; Species: Oryctolagus cuniculus (domestic rabbit)

C; Date: 25-May-1989 #sequence_revision 22-Nov-1996 #text_change

C; Accession: A27714; A30584; JU0082; A32166

R; Mori, S.; Goto, F.; Goto, K.; Ohkawara, S.; Maeda, S.; Shimada

Biochem. Biophys. Res. Commun. 150, 1237-1243, 1988

A; Title: Cloning and sequence analysis of a cDNA for lymphocyte

A; Reference number: A27714; MUID:88134238; PMID:2449207

A; Status: not commun. A27714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 15
A30584
                                                                                                                                                                                                                                                                         A; Residues: 1-268 <YOU>
C; Comment: This protein lacks a conventional signal sequence for protein export.
ved form of interleukin-lbeta, unlike interleukin 1-alpha, is inactive.
C; Comment: Interleukin-lbeta precursor is less heavily myristoylated than interl
C; Superfamily: interleukin-1
C; Keywords: cytokine; immunoregulation; inflammation; lymphokine; macrophage; mi
F; 117-268/Product: interleukin-1 beta #status predicted <ILB>
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A; Residues: 1-268 < YOU>
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PVGVTDKFENRKHIEFSFQ
                                    K----PTLQL--
                                                                                                                  KALHLNAENL-
                                                                                                                                                       KVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPILLGVSKGEFCLYC--DKD
                                                                           KGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESAAHPGWFICTSCNCNE
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                                                                                                                                                                                                36;
                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                               Conservative
                                     ESVDPNRYPKKKMEKRFVFNKIEIKDKLEFESAQFPNWYISTSQTEYM
                                                                                                                                                                                                               8.8%;
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stimulation of c
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                                                                                                                                                                                                             Score 89; DB 1
Pred. No. 0.72;
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No. 0.49;
                                                                                                                                                                                                                                                                     inflammation; lymphokine; tatus predicted <ILB>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               biologic properties, PMID:2784458
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                                                                                                                                                                                                                                1;
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ALIGNMENT'S

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Shuck M.E., Eessalu T.E., Tracey D.E., Bienkowski M.J.
"Cloning, heterologous expression and characterizatio interleukin 1 receptor antagonist protein.";
Eur. J. Immunol. 21:2775-2780(1991).
-1- FUNCTION: IL-1RA INHIBITS THE ACTIVITY OF IL-1 BY RECEPTOR. IL-1RA HAS NO IL-1 LIKE ACTIVITY.
-1- SUBCELLULAR LOCATION: SECRETED (ISOFORM 1) OR INT (ISOFORM 2).
-1- ALTERNATIVE PRODUCTS: 2 isoforms; 1 (shown here) produced by alternative splicing.
-1- SIMILARITY: BELONGS TO THE IL-1 FAMILY.
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EMBL; AF001795; AAC15251.1; -.
EMBL; M57525; AAA39278.1; -.
EMBL; M63100; AAA39310.1; -.
EMBL; S64082; AAA39310.1; -.
PIR; B40956; B40956.
PIR; A44610; A44610.
HSSP; P18510; 11RA.
MGD; MGI:96547; Illrn.
InterPro; IPR000975; Interleukin_Pfam; PF00340; IL1; 2.
ProDom; PD002536; Interleukin_1; SMART; SM00125; IL1; 1.
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ol. Immunopathol. 62:197-208(1998).
ON: IL-1RA INHIBITS THE ACTIVITY OF IL-1 BY OR. IL-1RA HAS NO IL-1 LIKE ACTIVITY.
RITY: BELONGS TO THE IL-1 FAMILY.
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INTERLEUKIN-1 RECEPTOR ANTAGONIST PROTEIN.
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N-LINKED (GLCNAC. . .) (POTENTIAL)
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EMBL; M57526; AAA31374.1; -.
EMBL; D21832; BAA04860.1; -.
PIR; A54377; A54377.
HSSP; P18510; 11LR.
InterPro; IPR000975; Interleukin_1
Pfam; PF00340; IL1; 1.
ProDom; PD002536; Interleukin_1; 1
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PROSITE; PS00253; INTERLEUKIN_1; 1
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Immunology 77:235-244(1992).
-!- FUNCTION: IL-1RA INHIBITS THE ACTIVITY OF IL-1 BY BINDING RECEPTOR. IL-1RA HAS NO IL-1 LIKE ACTIVITY.
-!- SIMILARITY: BELONGS TO THE IL-1 FAMILY.
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SEQUENCE
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INTERLEUKIN-1 RECEPTOR ANTAGONIST
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x MEDLINE=92338323; PubMed=1385987; Lennard A., Gorman P., Carrier M., G. Sheer D., Solari R.; "Cloning and chromosome mapping of the antagonist gene."; Cytokine 4:83-89(1992).
[5] SEQUENCE FROM ...
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SEQUENCE OF
MEDLINE=901?
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MEDLINE=91219436; Polymer of the Haskill S., Martin (Jaffe G.J., Hammerb)
"cDNA cloning of an
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"Purificati
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MEDLINE=97146044; PubMed=8992991;

Jenkins J.K., Drong R.F., Shuck M.E., Bienkowski M.J.,

Arend W.P., Smith M.F. Jr.;

"Intracellular IL-1 receptor antagonist promoter: cell
and inducible regulatory regions.";

J. Immunol. 158:748-755(1997).
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MEDLINE=91271363; PubMed=1828896;
Eisenberg S.P., Brewer M.T., Verderber E., Heimdal P.,
Eisenberg S.P., Brewer M.T., Verderber E., Heimdal P.,
Brandhuber B.J., Thompson R.C.;
"Interleukin 1 receptor antagonist is a member of the interleukin gene family: evolution of a cytokine control mechanism.";
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"Primary structure and functional expression from complementary DNA of a human interleukin-1 receptor antagonist.";

Nature 343:341-346(1990).
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MEDLINE=90136921; PubMed=2137201;
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15-JUN-2002 (Rel. 41, Last annotation update)
Interleukin-1 receptor antagonist protein precursor
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90220867; PubMed=2139180;
.B., Deibel M.R. Jr., Dun
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                                                                                136920; PubMed=2137200;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Martin G., van Le L., Morris J., Peace A., Bigler C.F Hammerberg C., Sporn S.A., Fong S., Arend W.P., Ralph.ng of an intracellular form of the human interleukin 1 tagonist associated with epithelium."; Acad. Sci. U.S.A. 88:3681-3685(1991).
                                             , Wilcox
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X MEDLINE=97215904; PubMed=9062194;

X MEDLINE=97215904; PubMed=9062194;

X Schreuder H., Tardif C., Trump-Kallmeyer S., Soffientini A.,

X Sarubbi E., Akeson A., Bowlin T., Yanofsky S., Barrett R.W.;

The New cytokine-receptor binding mode revealed by the crystal structure of the IL-1 receptor with an antagonist.";

X Nature 386:194-200(1997).

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MEDLINE-94230368; PubMe
Vigers G.P.A., Caffes F
Brandhuber B.J.;
"X-ray structure of int
resolution.";
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Schreuder H.A., Ron
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A30368.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S08159.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Interleukin_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INTERLEUKIN_1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                141
109
21
                                                                                                                                                                                                                                                                                                                                                        20055 MW;
                                                                                                                                                                                                                                                                            14.7%; Score 149.5; DB 1; 29.3%; Pred. No. 2.2e-07; ive 28; Mismatches 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Interleukin_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alternative splicing; 3D-structure.
                                                        160
                                                                                                                                                                                                                                                                                                                                                    ISOFORM 2).

MEICRGLRSHLITLLLFLFHS -> M.
GEDNADSK (IN ISOFORM 3).

MISSING (IN ISOFORM 4).

MISSING (IN ISOFORM 4).
                                                                                                                                                                                                                                                                                                                                                                                                                                MEICRGLRSHLITLLLFLFHS - ISOFORM 3'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROTEIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INTERLEUKIN-1 RECEPTOR ANTAGONIST
                                                                                                                                                                                                                                                                                                                  Length 177;
                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                             -> MALADLYEEGGGGGGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL).
                                                                                                                                                                                                                                                                                11;
                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                9
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IL1X_ AC DT

_PIG IL1X_PIG Q29056; 15-DEC-1998

STANDARD;

(Rel.

37,

Created)

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IL1x
AC
DT
DT
DT
DE
OC
OC
                                                                                                                                                                    В
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                                                                                                                                                                                                                                                       В
                                                                                                                                      RESULT
                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 42
                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; L38849; AAA99424.1; -.
HSSP; P18510; 11RA.
InterPro; IPR000975; Interleukin_1
Pfam; PF00340; IL1; 1.
ProDom; PD002536; Interleukin_1; 1
SMART; SM00125; IL1; 1.
PROSITE; PS00253; INTERLEUKIN_1; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sus scrofa (Pig).
Eukaryota; Metazoa; (Mammalia; Eutheria; (NCBI_TaxID=9823; [1]
ILIRN OR IL-1RA.
Rattus norvegicus (R
Rattus norvegicus (R
Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
STRAIN=Crossbred; TISSU
Yin J., Murtaugh M.P.;
"Characterization of IR
Submitted (MAY-1996) to
-!- FUNCTION: IL-1RA IN
                                                            -IL1X_RAT
P25086;
01-MAY-1992 (
01-MAY-1992 (
01-NOV-1995 (
Interleukin-1
                                                                                                                                                                                                                                                                                                                                      DISULFID
CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entities requires a license agreement (See http://www.isb-sor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                              Glycoprotein; Signal.
SIGNAL 1 2
CHAIN 26 17
                                                    (IRAP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Interleukin-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-DEC-1998
15-JUL-1999
                                                                                                                                                                     133
                                                                                                                                                                                         138
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8
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mitted (MAY-1996) to the EMBL/GenBank/DDBJ d
FUNCTION: IL-1RA INHIBITS THE ACTIVITY OF I
RECEPTOR. IL-1RA HAS NO IL-1 LIKE ACTIVITY.
SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                            WNMLESAAHPGWFICTSCNCNEPVGVTD
                                                                                                                                                                                                                            EKGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGS
                                                                                                                                                                     TTSFE
                                                                                                                                                                                                                                                  FSIHDQDHKVLVLDSGNLIA
                                                                                                                                                                                                                                                                                             42;
                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                    SAACI
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109
177 1
                                                             (Rel.
(Rel.
(Rel.
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                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                         LGIHGGKLCLSCVKSGDEM--KLQLDAVNITDLRKNSEQDKR-FTFIRSDSGP
                                                            receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptor
                                                                                                                                                                                                                                                                                                                                       AA;
                                                                                                                 STANDARD;
                                                                                                                                                                    (Rat).
a; Chordata;
a; Rodentia;
                                                                       32,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE=Lung;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                37,
38,
                                                                                                                                                                   25
177
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109
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                                                                                                                                                                                                                                                                                                                                       20093
                                                                                                                                                                                                                                                                                                      14.4%;
28.4%;
                                                                      Created)
Last sequence up
Last annotation
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Last
                                                            antagonist
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                                                                                                                                                                                                                                                                                            16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence update)
                                                                                                                                                                                                                                                                                         Score 146.5;
Pred. No. 4.3e
6; Mismatches
                                                                                                                                                                                                                                                                                                                                 BY SIMILARITY.
INTERLEUKIN-1 RECEPTOR ANTAGONIST
PROTEIN.
BY SIMILARITY.
N-LINKED (GLCNAC. . .) (POTENTIAL
2114DC6119A9D5F9 CRC64;
        Craniata; Vertebrata;
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                             .
H
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                                                            cion update)
protein pre
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                                                                                                                                                                                       165
                                                                                                                                                                                                                                                                                                    146.5; DB 1
No. 4.3e-07;
                                                                                update)
                                                                                                                178
                                                                                                                A
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                                                            precursor
                                                                                                                                                                                                                                                                                            49;
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databases
IL-1 BY E
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//www.isb-sib.
                                                                                                                                                                                                                                                                                                                                    .) (POTENTIAL)
                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                               Length
        Euteleostomi
Murinae; Ra
                                                            (IL-1RA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Euteleostomi
Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (IL-1RA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BINDING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  restrictions
                                                                                                                                                                                                                                                                                                              177;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a collaboration
                                                                                                                                                                                                                                                                                           41;
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                                                           (IL-1RN)
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          Rattus
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                                                                                                                                                                                                                                                                                                                                                                                      RESULT
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Best Loc
Matches
                                                                                                                                                                                                                                                           IL1X_HORSE
O18999; O777
15-DEC-1998
15-DEC-1998
15-JUL-1999
                                                                                                                                                                                                  Interleukin-
(IRAP).
IL1RN OR IL1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DISULFID
CARBOHYD
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMART; SM(
PROSITE; E
Glycoprote
SIGNAL
CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modified and entities recor send an e
    Tsujimoto
"Molecular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; M6310
PIR; C40956
HSSP; P1851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           [1]
SEQUENCE FR
MEDLINE=912
                                                                                                                 IL1RN OR IL1RA.
Equus caballus (Horse).
Eukaryota; Metazoa; Chordata; Craniata;
Mammalia; Eutheria; Perissodactyla; Equi
NCBI_TaxID=9796;
                                                                                                                                                                                                                                                                                                                                              HORSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IF Pfam; PF0034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Brandhuber : "Interleuki
                                                           SEQUENCE FROM N.A. MEDLINE=97366446; PubMed=9223227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWI
                                            Kato H.,
                                                                                                     [1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Interleukin 1 receptor antagonist is a member of the interleukin gene family: evolution of a cytokine control mechanism."; Proc. Natl. Acad. Sci. U.S.A. 88:5232-5236(1991).
-!- FUNCTION: IL-1RA INHIBITS THE ACTIVITY OF IL-1 BY BINDING TO I RECEPTOR. IL-1RA HAS NO IL-1 LIKE ACTIVITY.
-!- SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        use
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AHPGWF
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACPGWFLCTTLEADHPVSLTN 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LGIHGGKLCLSCVKSGDDT--KLQLEEVNITDLNKNKEEDKR-FTFIRSETGPTTSFESL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FRIWDI
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SMOO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity 29.1
                                        Ohashi T., Matsushiro H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           requires
an email t
  cloning
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271363; PubMed=1828896;
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S00253; INT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          S.P., Brewer M.T., V
B.J., Thompson R.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92
110
178 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   )02536;
)125; II
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                                                                                                                                                                                                                                                                                                                           745;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NQKTFYLRNNQLIAGYLQGPNTKLEEKIDMVPIDF-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PR000975;
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; C40956.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ICTSCNCNEPVGVTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DHKVLVLDSGNLIA - -
                                                                                                                                                                                                                                   (Rel. 37, Created)
(Rel. 37, Last sequence update)
(Rel. 38, Last annotation update)
1 receptor antagonist protein precursor (IL-1RA)
  Hasegawa
oning and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Signal
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6; Interleukin_1;
                                                                                                                                                                                                                                                                                                                                               STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INTERLEUKIN_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   142 E
110 N
20282 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26
178
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29.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Interleukin_1.
    functional
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 144.5; DB 1;
Pred. No. 6.7e-07;
0; Mismatches 53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROTEIN.
BY SIMIL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED (GLCNAC. . .) (POTENTIAL). F3A5754FB6C51B03 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BY SIMILARITY.
INTERLEUKIN-1 RECEPTOR ANTAGONIST
                                                                                                                                                                                                                                                                                                                                          PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -VPDKNYIRPEIFFALASSLSSASAEKGSPIL 84
expression
                                      Watari T.,
                                                                                                                                        ata; Vertebrata;
Equidae; Equus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Heimdal P.,
 of
                                        Goitsuka
equine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 178;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                              Euteleostomi;
                                       R.,
  interleukin-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           --RNVF
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RESULT
IL1B_SH
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Best Loo
Matches
Ovis aries (Sheep).
Eukaryota; Metazoa; (Mammalia; Eutheria; (Novidae; Caprinae; Ovidae; Ovi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; D83714; BAA22529.1; -.
EMBL; U92482; AAC39257.1; -.
HSSP; P18510; 11LR.
InterPro; IPR000975; Interleukin_1
Pfam; PF00340; IL1; 1.
ProDom; PD002536; Interleukin_1; 1
SMART; SM00125; IL1; 1.
PROSITE; PS00253; INTERLEUKIN_1; 1
                                                                                                                                                                                                IL1B_SHEEP
P21621;
01-MAY-1991
01-MAR-1992
30-MAY-2000
Interleukin-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DISULFID
CARBOHYD
CONFLICT
SEQUENCE
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SIGNAL
CHAIN
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Vet. Immu
                                                                                                                                                                                                                                                                                                                    SHEEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce, or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a between the Swiss Institute of Bioinformatics and the EMBI the European Bioinformatics Institute. There are no restrictive by non-profit institutions as long as its content institutions as long as its content institutions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE-98285942; PubMed-9622739;
Howard R.D., McIlwraith C.W., Trotter G.W., Nyborg J
"Cloning of equine interleukin-1 receptor antagonist
determination of its full-length cDNA sequence.";
Am. J. Vet. Res. 59:712-716(1998).
-!- FUNCTION: IL-1RA INHIBITS THE ACTIVITY OF IL-1 BY
RECEPTOR. IL-1RA HAS NO IL-1 LIKE ACTIVITY.
-!- SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A MEDLINE-98285942;
                                                                                                                                                                                                                                                                                                                                                                                                 149
                                                                                                                                                                                                                                                                                                                                                                                                                                      154
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   မ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AQEADRPVSLTNK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPILLGVSKGEFC
                                                                                                                                                                                                                                                                                                                                                                                                                                    SCNCNEPVGVTDK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FRIWDVNQKTFYMRNNQLVA--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immuno1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity 40; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antagonist.";
inol. Immunopathol.
                                                                                                                                                                                                   (Rel.) (Rel.) (Rel.) (Rel.) -1 beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        91
109
19
177 i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26
                                                                                                                                                                                                     beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AA;
                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                                                                                                                  18,
21,
39,
     PubMed=1840515;
J.S., David M.J
                                                                                            , wurdata; Craniata;
; Cetartiodactyla; Ru
Ovis.
                                                                                                                                                                                                                                                                                                                                                                                                                                    166
                                                                                                                                                                                               precursor
                                                                                                                                                                                                                                                                                                                                                                                               161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          141
109
19
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177
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20459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13.5%;
30.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Interleukin_1.
                                                                                                                                                                                                                   Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                            Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MΨ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22;
                                                                                                                                                                                               (IL-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -GYLQ-ESNTKLQEKIDVVPIEPDA-LFLGLHGRKLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROTEIN.
BY SIMILARITY.
N-LINKED (GLCN
F -> L (IN REF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     56:221-231(1997)
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BY SIMILARITY INTERLEUKIN-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -> L (IN REF. 2)
-> L (IN REF. 2)
1ABC377F1F1CF80B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            137.5; DI
No. 3.2e-
                                                                                                                                                                                                  beta).
      Wood
                                                                                                                  Ruminantia;
                                                                                                                                                                                                                                                                                                266
                                                                                                                                  Vertebrata;
      שי
                                                                                                                                                                                                                                                                                              AA.
     .
70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
e-06;
62;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RECEPTOR ANTAGONIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CRC64;
                                                                                                                 Pecora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ن
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
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                                                                                                                                     Euteleostomi;
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ent is in
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                                                                                                                   Bovoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               outstation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      148
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Query Ma
Best Loo
Matches
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PROPEP
CHAIN
CONFLICT
CONFLICT
CONFLICT
CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                               InterPro; IF pfam; PF0034 Pfam; PF0239 PRINTS; PR00 PRODom; PD00
                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PIR;
HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PIR;
PIR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     [2]
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                          PROSITE;
                                                                                                                                                                                                                                                                                                                                                                       SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=91088326;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic
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"Nucleotide s
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                                                        178
234
                            150
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                                                                                                                                                                                        Local
                                                                                     90
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                                                                                                                                                                                                          Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BL; X54796; CAA38566.1; -.
BL; X56972; CAA40293.1; -.
R; S13092; S13092.
R; S13810; S13810.
R; S23010; S23010.
BP; P01584; 511B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUBUNIT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN: THE SIMILARITY AMONG THE IL-1 PRECURSORS SUGGESTS THAT THE AMINO ENDS OF THESE PROTEINS SERVE SOME AS YET UNDEFINED FUNCTION.
MISCELLANEOUS: THE LACK OF A SPECIFIC HYDROPHOBIC SEGMENT IN THE PRECURSOR SEQUENCE SUGGESTS THAT IL-1 IS RELEASED BY DAMAGED CELLS OR IS SECRETED BY A MECHANISM DIFFERING FROM THAT USED FOR OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 seq.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SECRETORY PROTEINS.
SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cleotide sequence of ovine interleukin-1 beta.";
leic Acids Res. 18:7165-7165(1990).
FUNCTION: PRODUCED BY ACTIVATED MACROPHAGES, IL-1 STIMULATES
THYMOCYTE PROLIFERATION BY INDUCING IL-2 RELEASE, B-CELL
MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY.
IL-1 PROTEINS ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING
IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE
THE RELEASE OF PROSTAGLANDIN AND COLLAGENASE FROM SYNOVIAL CELLS
                          FICTSO
                                                                                                                   KCKLQI
                                                         KNLYL
                                                                                   GEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESAAHPGW 149
                                                                                                                                              KFSIHDQDHKVLVLDSG----NLIAVPDKNYIRPEIFFALASSLSSASAEKGSPILLGVSK 89
STSI.
                                                                                                                                                                                                                                                                                                                                                                               PF00340; IL1; 1.
PF02394; IL1_propep;
PR00262; IL1HBGF.
PD002536; Interleuk
                                                                                                                                                                                                                                                                                                                                                                       SM00125;
                                                                                                                                                                          Similarity 39; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                           10; S23010.
584; S11B.
IPR002348;
IPR003502;
IPR000975;
                                                                                                                                                                                                                                                                                                                                          Macrophage;
                                                        SCVK-KGDT-PTLQL--EEVDPKVYPKRNMEKRFVFYKTEIKNTVEFESVLYPNW
                                                                                                                                                                                                                                                                                                                                  S00253; INTERLEUKIN_1; 1.
Macrophage; Mitogen; Inflammatory response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               le sequence of ovine macrophage:423-426(1991).
)IEEKPV
                            CNEPV 161
                                                                                                                   DREQKSLVLDSPCVLKALHLPSQEMSR-EVVFCM-SFVQGEERDNKIPVALGIRD
                                                                                                                                                                                                                                   114
14
55
64
145
266 AA;
                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     С.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MONOMER
                                                                                                                                                                                                                                                                                                                                                                    ; Interleukin_1;
IL1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sargan D.;
ence of ovine
245
                                                                                                                                                                                                                                  2666 I
14 Y
55 C
64 V
145 I
30717 MW;
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                                                                                                                                                                                                                                                                                                                             113
                                                                                                                                                                                                                                                                                                                                                                                                                                            IL1_HBGF.
IL1_propep.
Interleukin_1.
                                                                                                                                                                          12.5%; Score 127.5; DB 1; 29.5%; Pred. No. 4.8e-05; cive 26; Mismatches 58;
                                                                                                                                                                                                                                                                 INTERLEUKIN-1 BETA.
Y -> C (IN REF. 2).
Q -> K (IN REF. 2).
V -> A (IN REF. 2).
                                                                                                                                                                                                                                                     ס
                                                                                                                                                                                                                                      BDED07B58224AB78 CRC64;
                                                                                                                                                                                                                                                   C (IN REF. 2).

K (IN REF. 2).

A (IN REF. 2).

L (IN REF. 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               interleukin-1 beta
                                                                                                                                                                                                      Length
                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                        Pyrogen
                                                                                                                                                                          9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CDNA.";
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Вb

Qy

RESULT

9

УQ

9

γQ

6

LYPNWY

ISTSQAEQKPV 246

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γQ
                                                             В
                     멍
                                                                                                                                                                                                                                                                                                                                                                                                       "Cloning, sequencing and regulation of an mrna encoding porcine interleukin-1 beta.";

If interleukin-1 beta.";

Gene 129:285-289(1993).

C -!- FUNCTION: PRODUCED BY ACTIVATED MACROPHAGES, IL-1 STIMULATES THYMOCYTE PROLIFERATION BY INDUCING IL-2 RELEASE, B-CELL

C MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY.

C IL-1 PROTEINS ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE THE RELEASE OF PROSTAGLANDIN AND COLLAGENASE FROM SYNOVIAL CELLS.

C -!- SUBUNIT: MONOMER.

C -!- SUBUNIT: MONOMER.

C -!- SUBUNIT: THE SIMILARITY AMONG THE IL-1 PRECURSORS SUGGESTS THAT THE MISCELLANEOUS: THE LACK OF A SPECIFIC HYDROPHOBIC SEGMENT IN THE PRECURSOR SEQUENCE SUGGESTS THAT IL-1 IS RELEASED BY DAMAGED CELLS.

C -!- SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                     Query Match
Best Local S
Matches 37
                                                                                                                                                                                     InterPro; IPR002348; IL1_HB(InterPro; IPR002348; IL1_pro; IPR003502; IL1_pro; InterPro; IPR003502; IL1_pro; InterPro; IPR000975; InterProfem; PF00340; IL1; 1.

Pfam; PF02394; IL1_propep; 1
PRINTS; PR00262; IL1HBGF.
ProDom; PD002536; Interleuki SMART; SM00125; IL1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IL1B_PIG STANDARD P26889; 01-AUG-1992 (Rel. 23, C 01-AUG-1992 (Rel. 23, L 30-MAY-2000 (Rel. 39, L Interleukin-1 beta precill1B.
                                                                                                                                                                             PROSITE; F
Cytokine;
                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a coperative the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                       EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A. MEDLINE=93314975;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Cloning, sequencing and regulation
                                                                                                                                                SEQUENCE
145
                                                             116
                     175
                                         86
                                                                                  28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  scrofa
                                                                                                                                                                                                                                                                                   ; M86725; AAA02584.1;
JN0724; JN0724.
; P01584; 1HIB.
 AHPGWFICTSCNCNEPV
                                         GVSKGE
                                                             NVQSMECKLQDKDHKSLVLAGPHMLKALHLLTGDLKREVVFCM-
                                                                                 NLNPKKFSIHDQDHKVLVLDSGNLIAVPD--KNYIRPEIFFALASSLSSASAEKGSPILL
                     GIKGKNLYLSCVMKD--
                                                                                                     Similarity 37; Conser
                                                                                                                                                                            Macrophage; Mitogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (Pig).
                                                                                                                                               115
267 i
                                        FCLYC-DKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESA
                                                                                                      Conservative
                                                                                                                                                AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STANDARD;
                                                                                                                                                                               iL1; 1.
3; INTERLEUKIN_1;
                                                                                                                                                                                                           Interleukin_1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=8325511;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      precursor (IL-1
                                                                                                                                                         114
267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chordata; Craniata; Ver Cetartiodactyla; Suina;
                                                                                                                                              30404 MW;
                                                                                                                                                                                                                                                   IL1_HBGF.
IL1_propep.
Interleukin_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
Last sequence up
                                                                                                              11.8%;
                   -NTPTLQL-
                                                                                                    27;
                                                                                                                                  BY SIMILANTI
INTERLEUKIN-1 BETA.
N; 7F6B92B784D5086F (
                                                                                                              Score Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
                                                                                                                                                                 i, 1.
Inflammatory response;
SIMILARITY.
                   EDIDPKRYPKRDMEKRFVFYKTEIKNRVEFESA
                                                                                                     Mismatches
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on of an m
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                                                                                                              119.5; DB 1;
No. 0.00028;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                update)
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ina; Suidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A
A
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mRNA
                                                                                                    64;
                                                                                                                                               CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Molitor
                                                             SFVQGDDSNNKIPVTL
                                                                                                                                                                                                                                                                                                                                     e by and for commercia/www.isb-sib.ch/announce
                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Euteleostomi;
Sus.
                                                                                                                                                                            Pyrogen.
                                                                                                                                                                                                                                                                                                                                                                     restrictions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               r T.W.;
porcine
                                                                                                                        267;
                                                                                                                                                                                                                                                                                                                                                                                collaboration
                                                                                                     9;
                                                                                                                                                                                                                                                                                                                                                                               outstation
                                                                                                     Gaps
                                                                                 85
                                         144
                                                            174
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RESULT IL18_BC
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Gillis S., C
"Cloning, se
interleukin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-MAR-1989
30-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IL1B_BOVIN
P09428;
01-MAR-1989
                                                                                                                                  InterPro; II
InterPro; II
Pfam; PF0034
Pfam; PF0239
PRINTS; PR00
                                                                                                                                                                                                                                                     PIR; JL0010;
PIR; S01380;
HSSP; P01584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOVIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.

MEDLINE=89016591; PubMed=3262866;

MEDLINE=89016591; PubMed=3262866;

Leong S.R., Flaggs G.M., Lawman M., Gray

"The nucleotide sequence for the cDNA of

Nucleic Acids Res. 16:9054-9054(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IL1B.
                                                                                               ProDom; SMART;
                                                                                                                                                                                                                                                                                                                EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                          the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazo; Mammalia; Eutheri; Bovidae; Bovinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. MEDLINE=88318652;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic Acids [2]
                                                     Cytokine;
                                                                                                                                                                                                                                                                                                                                                         EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 between
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                                     PROPEP
                                                                             PROSITE;
                                                                                                                                                                                                                                    InterPro;
                                                                                                                                                                                                                                                                                                                                                                                             send an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               . Immunol. FUNCTION: THYMOCYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUBUNIT DOMAIN:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN: THE SIMILARITY AMONG THE IL-1 PRECURSORS SUGGESTS THAT THE AMINO ENDS OF THESE PROTEINS SERVE SOME AS YET UNDEFINED FUNCTION.

MISCELLANEOUS: THE LACK OF A SPECIFIC HYDROPHOBIC SEGMENT IN THE PRECURSOR SEQUENCE SUGGESTS THAT IL-1 IS RELEASED BY DAMAGED CELLS OR IS SECRETED BY A MECHANISM DIFFERING FROM THAT USED FOR OTHER SECRETORY PROTEINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FUNCTION: PRODUCED BY ACTIVATED MACROPHAGES, IL-1 STIMULATES THYMOCYTE PROLIFERATION BY INDUCING IL-2 RELEASE, B-CELL MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY. IL-1 PROTEINS ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE THE RELEASE OF PROSTAGLANDIN AND COLLAGENASE FROM SYNOVIAL CELLS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SWISS-PROT entry is copyright. It is produced through a collaboration -
een the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                               M3558
X1249
M3721
                                                                                              SMOO
                                                                                                                                                                                                                                                                                                                                                                                           requires a license agreement (S
in email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence and expression of bovine interleukin 1 alpha and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Metazoa; Chordata; Craniat
Eutheria; Cetartiodactyla;
                                                                                                00262; IL1HBGF.
002536; Interle
0125; IL1; 1.
                                                                                                                                                                                       IPRO02348;
IPRO03502;
IPRO00975;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cerretti D.P.
                                     facrophage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9913;
                                                                              00253;
                                                                                                                                                            94;
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-1 bet
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MONOMER.
                                                                                                                                                                                                                                                                                                                AAA30585.1;
CAA31018.1;
AAA30584.1;
                                                                                                                                                                                                                                                                                              ICBO1B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                beta complementary DNAs."; 25:429-437(1988). PRODUCED BY ACTIVATED MACR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rel. 39, Last annotation update) beta precursor (IL-1 beta).
                                                                                                                                                                                                                                                            1HIB.
                                                                                                                                                       IL1_propep; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD;
                                                                                            ; Interleukin_1; IL1; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10,
39,
                                                                           INTERLEUKIN_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Baker P.E., Schoenborn M.A., Davis B.S., Cosman D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PubMed=3261832;
266
252
                                                                                                                                                                                              IL1_propep.
Interleukin_1
                                                                                                                                                                                                                                     IL1_HBGF
                                                         Mitogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Last sequence update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Craniata; Vertebrata; Euteleostomi; actyla; Ruminantia; Pecora; Bovoidea;
                  INTERLEUKIN-1 BETA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                      Inflammatory response;
 G (IN REF.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P.W.;
bovine
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ÖS

SEQUENCE

266

AA;

30774 MW;

9D1EF8F575070586

CRC64;

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RESULT
IL1B_CA
ID II
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    InterPro; IPRO02348; IL1_HB
InterPro; IPRO03502; IL1_pro
InterPro; IPRO03502; IL1_pro
InterPro; IPRO00975; Interlo
Pfam; PF00340; IL1; 1.
Pfam; PF02394; IL1_propep; 1
PRINTS; PR00262; IL1HBGF.
ProDom; PD002536: Trto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IL1B.
Capra hircus (Goat).
Capra hircus (Goat).
Eukaryota; Metazoa; Chorda:
Mammalia; Eutheria; Cetart:
Bovidae; Caprinae; Capra.
NCBI_TaxID=9925;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.

Takakura H., Hashimoto O.

"Molecular cloning and ex

IL-lbeta.";

Submitted (JUN-1995) to t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAPHI
                                                                                                                          EMBL;
HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IL1B_CAPHI STANDARD; PRT; 266 AA. P79162; P79162; 15-DEC-1998 (Rel. 37, Created) 15-DEC-1998 (Rel. 37, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) Interleukin-1 beta precursor (IL-1 beta).
                                                                                                                                                                 use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is between the Swiss Institute of Bioinformathe European Bioinformatics Institute. The European Bioinformatics Institutions as long use by non-profit institutions as long
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                                                                                                                                                                                                                                                                                         (BY SIMILARITY).
SUBUNIT: MONOMER (BY SIMILARITY).
DOMAIN: THE SIMILARITY AMONG THE IL-1 PRECURSORS SUGGESTS THAT THE AMINO ENDS OF THESE PROTEINS SERVE SOME AS YET UNDEFINED FUNCTION.
MISCELLANEOUS: THE LACK OF A SPECIFIC HYDROPHOBIC SEGMENT IN THE PRECURSOR SEQUENCE SUGGESTS THAT IL-1 IS RELEASED BY DAMAGED CELLS OR IS SECRETED BY A MECHANISM DIFFERING FROM THAT USED FOR OTHER SECRETORY PROTEINS.
SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                              nitted (JUN-1995) to the EMBL/GenBank/DDBJ databases.
FUNCTION: PRODUCED BY ACTIVATED MACROPHAGES, IL-1 STIMULATES
THYMOCYTE PROLIFERATION BY INDUCING IL-2 RELEASE, B-CELL
MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY.
IL-1 PROTEINS ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING
IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE
THE RELEASE OF PROSTAGLANDIN AND COLLAGENASE FROM SYNOVIAL CELLS
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                                                                                                                         D63351; BAA09675.1; P01584; 1HIB.
; PD002536;
SM00125; II
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. Similarity 27.5%;
36; Conservative
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               Interleukin_1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Chordata; Craniata; Vertebrata; Euteleostomi;
Cetartiodactyla; Ruminantia; Pecora; Bovoidea
                                                                         IL1_HBGF.
IL1_propep.
Interleukin_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    O., Mori Y., Tatsumi expression of caprin
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                                                                                                                                                                                                                                                tht. It is produced through a collaboration Bioinformatics and the EMBL outstation -
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ches 63;
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                                                                                                                                                                                                                                restrictions
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Pfam; Pfam;

PF00:

IL1; 1.
IL1_propep;
2; IL1HBGF.

InterPro;

InterPro

Interleukin_1.

propep

ProDom;

002536;

Interleukin_1;

PRINTS;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 35
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Cytokine;
PROPEP
CHAIN
SEQUENCE
                                                                                                                                                                                                                  This SWISS-
between th
                                                                                                                                                                                                                                                                                                                                                                                                                                                Feeser W.,
Submitted (
                                                                                                 EMBL; M98820
HSSP; P10749
                                                                                                                                                           modified an entities re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FR
STRAIN-Spra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IL1B_RAT STANDARD; PRT; 268 AA Q63264; 01-NOV-1997 (Rel. 35, Created) 01-NOV-1997 (Rel. 35, Last sequence update) 30-MAY-2000 (Rel. 39, Last annotation update) Interleukin-1 beta precursor (IL-1 beta). IL1B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10116;
                                                                                   InterPro;
                                                                                                                                            or send an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      235
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                                                                                                                                                                                                                                                      DOMAIN: THE SIMILARITY AMONG THE IL-1 PRECURSORS SUGGESTS THAT THE AMINO ENDS OF THESE PROTEINS SERVE SOME AS YET UNDEFINED FUNCTION. MISCELLANEOUS: THE LACK OF A SPECIFIC HYDROPHOBIC SEGMENT IN THE PRECURSOR SEQUENCE SUGGESTS THAT IL-1 IS RELEASED BY DAMAGED CELLS OR IS SECRETED BY A MECHANISM DIFFERING FROM THAT USED FOR OTHER SECRETORY PROTEINS.

SIMILARITY: BELONGS TO THE TT. 1
                                                                                                                                                                                                      Europe
                                                                                                                                                                                                                                                                                                                                                       THYMOCYTE PROLIFERATION BY INDUCING IL-2 RELEASE, B-CELL MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY.

MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY.

IL-1 PROTEINS ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE SUBUNIT: MONOMER.

SUBUNIT: MONOMER.
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Macrophage; Mitogen; In

1 113 BY S

114 266 INTE

266 AA; 30769 MW; 59
                                                    749; 2MIB.
IPR002348; IL1_HBGF.
IPR003502; IL1_prope;
IPR000975; Interleuk
                                                                                                                                                                                                                                                                                                                                                                                                                                                rague-Dawley; TIS;
, Freimark B.D.;
(AUG-1992) to the
ION: PRODUCED BY
                                                                                                                                     -PROT entry is copyright. It is produced through a collaboration he Swiss Institute of Bioinformatics and the EMBL outstation an Bioinformatics Institute. There are no restrictions on its con-profit institutions as long as its content is in no way not this statement is not removed. Usage by and for commercial equires a license agreement (See http://www.isb-sib.ch/announce/email to license@isb-sib.ch).
                                                                                                                  20; AAA41426.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DQDHKVLVLDSGNLIAVPD--KNYIRPETFFALASSLSSASAEKGSPILLGVSKG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE-Macrophage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    i; Inflammatory response;
BY SIMILARITY.
INTERLEUKIN-1 BETA.
59F7B39BD1D4DDA5 CRC64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        update)
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                                                                                                                                                                                                        Submitted (MAR-1995) to the EMBL/GenBank/DDBJ databases.

1. Submitted (MAR-1995) to the EMBL/GenBank/DDBJ databases.

2. FUNCTION: PRODUCED BY ACTIVATED MACROPHAGES, IL-1 STIMULATES

3. THYMOCYTE PROLIFERATION BY INDUCING IL-2 RELEASE, B-CELL

4. MATURATION AND PROLIFERATION, AND FIBROBLAST GROWTH FACTOR

5. ACTIVITY. IL-1S ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING

6. IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE

7. THE RELEASE OF PROSTAGLANDIN AND COLLAGENASE FROM SYNOVIAL CELLS

7. SUBUNIT: MONOMER (By similarity).

7. IDENTIFIED STIMILARITY AMONG THE IL-1 PRECURSORS SUGGESTS THAT THE

8. AMINO ENDS OF THESE PROTEINS SERVE SOME AS YET UNDEFINED FUNCTION.

8. IN SECURSOR SEQUENCE SUGGESTS THAT IL-1 IS RELEASED BY DAMAGED CELLS

9. OR IS SECRETED BY A MECHANISM DIFFERING FROM THAT USED FOR OTHER

9. SIMILARITY: BELONGS TO THE IL-1 FAMILY.

1. SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IL1B_CEREL STANDARD;
P51745;
01-OCT-1996 (Rel. 34, Created)
01-OCT-1996 (Rel. 34, Last seq
15-JUN-2002 (Rel. 41, Last ann
Interleukin-1 beta precursor (
IL1B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMART; SMO
PROSITE; P
Cytokine;
PROPEP
CHAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota;
Mammalia; I
Cervidae; (
                                     InterPro;
InterPro;
                                                                                                 This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by ancentities requires a license agreement (See http://www.isb-sorsend an email to license@isb-sib.ch).
                                                                EMBL;
HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=9860; [1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CEREL
Pfam;
Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                              Lockhart
                           InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            185
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P01584; 1HIB.
Pro; IPR002348;
Pro; IPR003502;
Pro; IPR000975;
PF00340; IL1; 1
PF02394; IL1_pr
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                                                                U20500;
P01584;
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E; PS00253;
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PS00253; L.;
Macrophage; M.;
1 116
17 268 IN
30644 MW;
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Cervinae;
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                                                                             AAA62234.1;
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Chordata; Craniata;
Cetartiodactyla; Rum
Cervus.
.propep;
                                      IL1_HBGF.
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27.9%;
                          IL1_propep.
Interleukin
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Last annotation update)
cursor (IL-1 beta)
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Inflammatory respon; Inflammatory responsition
BY SIMILARITY.
INTERLEUKIN-1 BETA.
INTERLEUKIN-1 BETA.
INTERLEUKIN-1 BETA.
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ore 107; DE ed. No. 0.00 Mismatches
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                                                                                                                  y and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pyrogen
                                                                                                                                                         restrictions
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                                                                                                                                                                      h a collaboration -
                                                                                                                              for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
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RESULT
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Best Loc
Matches
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01-JUL-1989 (Rel. 11, I
30-MAY-2000 (Rel. 39, I
Interleukin-1 beta nron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                _MOUSE
                                                                                                                                                                                                 Huang J.J., Ne Covington M., "Characterizat
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PROSITE; F
Cytokine;
PROPEP
CHAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM MEDLINE=870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus
Eukaryota; l
Mammalia; Es
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P10749;
01-JUL-1989
          van Oostrum J., Priestle J.P., Grutter M.G., Schmitz A.;
"The structure of murine interleukin-1 beta at 2.8-A resolution.";
J. Struct. Biol. 107:189-195(1991).
-!- FUNCTION: PRODUCED BY ACTIVATED MACROPHAGES, IL-1 STIMULATES
THYMOCYTE PROLIFERATION BY INDUCING IL-2 RELEASE, B-CELL
MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY.
IL-1 PROTEINS ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING
IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE
THE RELEASE OF PROSTAGLANDIN AND COLLAGENASE FROM SYNOVIAL CELLS
                                                                                                                                                                                                                                                                                                                                                                                            Gray
"Two
                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.

MEDLINE-87117546; PubMed-3492706;

Telford J.L., Macchia G., Massone A., Carinci V

"The murine interleukin 1 beta gene: structure
Nucleic Acids Res. 14:9955-9963(1986).
                                                                                                                                                                                                                                                                                                                                                                               CDNA
                                                                                                                                                                            purification.
J. Immuno
                                                                                                                                                                                                                            MEDLINE=88229074; PubMed=2967326; Huang J.J., Newton R.C., Rutledge S.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ILlB
                                                                                                                                  MEDLINE=9
                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                 X-RAY CRYST
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                                                                                                                                                                                                                                                                                                                                                            ay P.W., Glaister D., Chen E., Goeddel D.V., Pennica D.; wo interleukin 1 genes in the mouse: cloning and expression NA for murine interleukin 1 beta."; Immunol. 137:3644-3648/1006
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                                                                                                                                                                           Immunol
THE REL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VLYPNWYISTSHPEEKPV 245
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37; Con-
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E; PS00253; IN
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F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lus (Mouse).
; Metazoa; Chordata;
Eutheria; Rodentia;
                                                                                                                                  STALLOGRAPHY (2.0 ANGSTROMS).
2222792; PubMed=1807351;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PS00253; INTERLEUKIN_1; 1.

Macrophage; Mitogen; Inflammatory response;

1 113 BY SIMILARITY.

114 266 INTERLEUKIN-1 BETA.

266 AA; 30629 MW; 4F40B4E6F0D9F060 CRC64.
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                                                                                                                                                                                           zation of murine IL-1 beta.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KKFSIHDQDHKVLVLDSGNLIAVPD--KNYIRPEIFFALASSLSSASAEKGSPI 83
                                                                                                                                                                                                                                                          118-139
                                                                                                                                                                          140:3838-3843(1988).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Interleukin_1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11, Last sequence update)
39, Last annotation updat
precursor (IL-1 beta).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10.3%; Score 105; DB 1; Length 266; 26.8%; Pred. No. 0.007; ive 29; Mismatches 62; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              update)
                                                                                                                                                                                                                                                                                                             Carinci V.,
                                                                                                                                                                                                     Isolation,
                                                                                                                                                                                                                               Horuk R.,
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                                                                                                                                                                                                                                Matthew J.B.,
                                                                                                                                                                                                                                                                                                 Palla E., Melli M.; d evolution.";
                                                                                                                                                                                                     expression,
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Best Local S
Matches 43
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REMBL; X04964; CAA28637.1; -.

PIR; A24719; A24719.

PIR; S13029; S13029.

PDB; 811B; 15-OCT-94.

PDB; 2MIB; 31-JAN-94.

MGD; MGI:96543; I11b.

InterPro; IPR002348; IL1_HBGF.

InterPro; IPR003502; IL1_propep.

InterPro; IPR000975; Interleukin_1

Pfam; PF00340; IL1; 1.

Pfam; PF00344; IL1_propep; 1.

PRINTS; PR00262; IL1HBGF.

PRODOM; PD002536; Interleukin_1; 1.

SMART; SM00125; IL1; 1.

PROSITE; PS00253; INTERLEUKIN_1; 1.

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SIMILARITY: BELONGS TO THE IL-1 FAMILY.
      LYLSCYMKDGT --
                                   FCLYCDKDKGQSHPSLQLKKEKLMKLAAQKESARRPF1FYRAQVGSWNMLESAAHPGWF1
                                                                        YRLRDEQQKSLVLSDPYELKALHLNGQNINQQVIFSMSFVQGEPSNDK-IPVALGLKGKN
                                                                                                          FSIHDQDHKVLVL-DSGNLIAVP-DKNYIRPEIFFALASSLSSASAEKGSPILLGVSKGE
                                                                                                                                                       41
                                                                                                                                                    10.2%;
Similarity 27.5%;
11; Conservative
                                                                                                                                                                                                                               AA;
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129
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266
ESVDPKQYPKKKMEKRFVFNKIEVKSKVEFESAEFPNWYI
                                                                                                                                                                                                                              ₩;
                                                                                                                                                       29;
                                                                                                                                             Score 104; DE Pred. No. 0.00
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Inflammatory
                                                                                                                                                                    DB 1;
.0089;
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Pfam; PFO0340; I
Pfam; PF02394; I
PFINTS; PRO0262;
PRODOM; PD002536
SMART; SM00125;
PROSITE; PS00253
Cytokine; Macrop
PROPEP 1
CHAIN 113
SEQUENCE 269 A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazo
Mammalia; Metathe
NCBI_TaxID=9337;
[1]
SEQUENCE FROM N.A
MEDLINE=99221044;
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HSSP; P0158
InterPro; I
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Q9XS77;
15-JUN-200;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       THYMOCYTE PRODUCED BY ACTIVATED MACROPHAGES, IL-1 STIMULATES
THYMOCYTE PRODUCED BY INDUCING IL-2 RELEASE, B-CELL
MATURATION & PROLIFERATION, & FIBROBLAST GROWTH FACTOR ACTIVITY.

IL-1 PROTEINS ARE INVOLVED IN THE INFLAMMATORY RESPONSE, BEING
IDENTIFIED AS ENDOGENOUS PYROGENS, AND ARE REPORTED TO STIMULATE
THE RELEASE OF PROSTAGLANDIN AND COLLAGENASE FROM SYNOVIAL CELLS.

-!- SUBUNIT: MONOMER.

-!- SUBUNIT: MONOMER.

-!- DOMAIN: THE SIMILARITY AMONG THE IL-1 PRECURSORS SUGGESTS THAT THE
AMINO ENDS OF THESE PROTEINS SERVE SOME AS YET UNDEFINED FUNCTION.

-!- MISCELLANEOUS: THE LACK OF A SPECIFIC HYDROPHOBIC SEGMENT IN THE
PRECURSOR SEQUENCE SUGGESTS THAT IL-1 IS RELEASED BY DAMAGED CELLS
OR IS SECRETED BY A MECHANISM DIFFERING FROM THAT USED FOR OTHER
SECRETORY PROTEINS.

-!- SIMILARITY: BELONGS TO THE IL-1 FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wedlock D.N., Goh L.P., Parlane N.A., Buddle B.M.;
"Molecular cloning and physiological effects of brushtail possum interleukin-lbeta.";
Vet. Immunol. Immunopathol. 67:359-372/1000.
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SM00125; IL
E; PS00253;
                                                                                                                                                             39
39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1584; 1HIB.; IL1_HBGF.; IPR002348; IL1_HBGF.; IPR003502; IL1_propep.; IPR000975; Interleukin_1.00340; IL1; 1.
                                                                                                                                                            imilarity 24.
; Conservative
ALASSLSSASAEKGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAAQK 121
                                                    SD----SSFRL--
                                                                                                    TETKGKNSFKKRLRGPKVKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKN--YIR 61
                                                                                                                                                                                                                                                                                                                                             Macrophage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   394; IL1_propep; 1.
00262; IL1HBGF.
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)2 (Rel. 41, Last sequence update)
)2 (Rel. 41, Last annotation update)
.n-1 beta precursor (IL-1 beta).
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269 AA;
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Metazoa; Chordata; Craniata; Vertebrata;
~+~+heria: Diprotodontia; Phalangeridae;
                                                                                                                                                                                                                                                                                                                                                                                                  IL1;
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269 I
31141 MW;
                                                                                                                                                          9.9%; Score 101; DB 1; Length 269; 24.4%; Pred. No. 0.017; ive 34; Mismatches 65; Indels
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                                 ---VSSQDCTIQDINQKCLALSKASELRALHLNGRNIS
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INTERLEUKIN-1 BETA.
307A1FE3B627D6E7
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Inflammatory response; Pyrogen.
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Search completed: May 3, 2003, 18:35:42
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7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
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Q9nzh6 homo
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ALIGNMENTS

QY MSGCDRRETETKGKNSFKKRLRGPKVKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYI	Query Ma Best Loc Matches	3 MW; 4AF584C	InterPro; IPR000975; Interleukin_ Pfam; PF00340; IL1; 1. Propom: BD003536; Interleukin_	"Four New Members Expand the IL-1 J. Biol. Chem. 275:1169-1175(2000) EMBL; AF201832; AAF25212.1;	SEQUENCE FROM N.A. MEDLINE=20092888; PubMed=10 Smith D.E., Renshaw B.R., K Sims J.E.;	Homo sag Eukaryot Mammalia NCBI_Tax	Q9UHA6; Q9UHA6; 01-MAY-2000 (TrEMBLrel. 13, Creat 01-MAY-2000 (TrEMBLrel. 13, Last 01-DEC-2001 (TrEMBLrel. 19, Last FIL1 zeta	
KFSIHDQDHKVLVLDSGNLIAVPDKNYI 60	1017; DB 4; Length 192; No. 2.9e-96; atches 0; Indels 0; Gaps	C81802F612 CRC64;		Superfamily.";	., Kubin M., Garka K.E.,	a; Vertebrata; Euteleostomi; ini; Hominidae; Homo.	ed) sequence update) annotation update)	ე ა

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RESULT
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ID Q9
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Best Loc
Matches
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Q9NZH6;
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01-OCT-2000 (TrEMBLrel. 1
01-DEC-2001 (TrEMBLrel. 1
interleukin-1 homolog 4
                                                                                                                                                                                                                                                                                                                              long isoform a).
Homo sapiens (Human)
Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
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SEQUENCE FROM N.A.
Taylor S.L., Renshaw B.
"Genomic Organization c
Genomics 0:0-0(2002).
EMBL; AY071840; AAL6715
SEQUENCE 197 AA; 219
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Eukaryota; Metazoa; (
Mammalia; Eutheria; 
NCBI_TaxID=9606;
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01-JUN-2002
01-JUN-2002
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IL-1F7d.
                                                                                                                                   [1]
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
TISSUE=FETAL LUNG, FETAL TESTIS, FETAL B-CE
MEDLINE=20209405; PubMed=10744718;
Kumar S., McDonnell P.C., Lehr R., Tierney
Kumar S., McDonnell P.C., Tal-Singer R.,
                                                Young P.R.;
"Identification and initial characte:
"the interleukin-1 family.";
the interleukin-275:10308-10314(2000)
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71; Conservative
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CARCINOMA;
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Primates;
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-1X protein) (Interleukin-
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Pred. No. 9.1e-85;
); Mismatches 1
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Catarrhini;
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Homo.
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Matches 169;
Query
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SEQUENCE
Pan G., I
                                                                                                                                                        [2]
SEQUENCE FRO
SEQUENCE FRO
TISSUE=PLACE
Strausberg R
Strausberg R
Submitted (J
EMBL; AF2511
EMBL; BC0206
HSSP; P18510
InterPro; IP
                                                     Pfam; PF003
ProDom; PD0
SMART; SM00
Hypothetica
SEQUENCE
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Homo sapien
Eukaryota;
Mammalia; E
NCBI_TaxID=
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Q9HBF3;
Q1-MAR-2001
01-MAR-2002
01-MAR-2002
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"IL-1H, an i
1Rrp.";
Submitted (A
EMBL; AF2004
EMBL; AF2511
HSSP; P18510
InterPro; IP
Pfam; PF0034
ProDom; PD00
SMART; SM001
SEQUENCE 2
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Yansura D
"IL-1H, a
"IRrp.";
Cytokine
[2]
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SEQUENCE F
MEDLINE=21
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Interleukin-1-related protein long isoform (Hypothetical
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m; PD002536; Interleukin_1; 1.
; SM00125; IL1; 1.
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IE=21066552; PubMed=11145836;
, Risser P., Mao W., Baldwin I.
a D., Lewis L., Eigenbrot C.,
I, an interleukin 1-related pro
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a; Metazoa; Chordata; C
; Eutheria; Primates; C
ID=9606;
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sser P., Mao W., Baldwin D.T., Zhong A.W., Yansura D.,
Eigenbrot C., Henzle W.J., Vandlen R., Filvaroff E.;
interleukin-1-related protein that binds IL-18 receptor/IL-
                                                                                                                                                                                                    (JAN-2002) to the EMBL/GenBank/DDBJ databases 1119; AAG14421.1; -. 0637; AAH20637.1; -.
                                                                                                                                                                                                                                                                                                                                                     3:1-7(2001).
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002536; Interleukin_1; 1.
0125; IL1; 1.
218 AA; 24126 MW; 96E0
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(JUL-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                             IPR000975;
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                                                        al protein.
218 AA; 2
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L., Eigenbrot C., Henzel W.J., Vandlen R.;
ukin 1-related protein that binds IL-18 receptor
                                                      24138 MW;
                                                                                                                                                             Interleukin_1.
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                88
                .0%;
               Score
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                                                        76E09C35093DEA63 CRC64;
                895;
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                DB
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Local

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RESULT
Q8TD04
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AC Q8
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DT 01
DT 01
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GN IL
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Q9HBF2
ID Q9
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Q9HBF2;
Q9HBF2;
Q1-MAR-2001 (TrEMBLrel. 16, Created)
O1-MAR-2001 (TrEMBLrel. 16, Last seque)
O1-DEC-2001 (TrEMBLrel. 19, Last anno)
Interleukin-1-related protein short is Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata Mammalia; Eutheria; Primates; Catarrh, NCBI_TaxID=9606;
  Homo sapiens
Eukaryota; Me
Mammalia; Eut
                           Q8TD04;
Q8TD04;
Q8TD04;
01-JUN-2002
01-JUN-2002
01-JUN-2002
IL-1F7e.
IL1F7.
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"IL-1H,
1Rrp.";
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MEDLINE=21066552; PubMed=11145836;

Pan G., Risser P., Mao W., Baldwin D.T.,

Yansura D., Lewis L., Eigenbrot C., Henze
"IL-1H, an interleukin 1-related protein
                                                                                                                                                                                                                                                                                      Cytokine 13:1-7(2001).

EMBL; AF251120; AAG14422.1;
HSSP; P18510; 1ITN.
InterPro; IPR000975; Interl.
Pfam; PF00340; IL1; 1.
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ProDom; PD002536; Interleukin_1;
SMART; SM00125; IL1; 1.
SEQUENCE 178 AA; 19616 MW; D;
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; Conservative
   ; Metazoa;
Eutheria;
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ilarity 87.7%;
Conservative
                                            (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                                                              PRELIMINARY;
                   (Human)
Chordata;
Primates;
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21,
21,
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Last sequence
Last annotati
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Pred. No. 3.2e-64;
7; Mismatches 10;
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Catarrhini;
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Mismatches
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Catarrhini;
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Henzel W.J.
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tion update)
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t; Hominidae;
  Vertebrata;
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.J., Vandlen R.;
L binds IL-18 rec
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ProDom; PD002536; Interleukin_1: 1.
SMART; SM00125; IL1; 1.
PROSITE; PS00253; INTERIFFERENCE 157
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[1]
SEQUENCE FROM N.A.
Taylor S.L., Renshaw B.R., Garka K.E., Smitl
"Genomic Organization of the IL-1 Locus.";
Genomics 0:0-0(2002).
EMBL; AY071841; AAL67154.1; -.
SEQUENCE 157 AA; 17459 MW; 5EA5EA10CF30
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Q9UHA5;
01-MAY-2000
01-MAY-2000
01-OCT-2001
FIL1 eta.
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Sims J
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MEDLINE=20092888; PubMed=10625660;

Smith D.E., Renshaw B.R., Ketchem Sims J.E.;
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"Four New Members Expand the IL-1 S
J. Biol. Chem. 275:1169-1175(2000).
EMBL; AF201833; AAF25213.1; -.
HSSP; P10749; 2MIB.
InterPro; IPR000975; Interleukin_1.
                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. NCBI_TaxID=9606;
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126
                     150
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SARRPET
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                    FICTSC
                                            KDLCLF
                                                                                           PKSYAI
                                                                                                                PKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALA-SSLSSASAEKGSPILLGVSK 89
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STTSGQPIFLT 140
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                      NCNEPVGVT 164
                                            | : :|: |:||||:: :| | :|: |::||:|: : || :: :| :::||
                                                                                                                                      22.5%; Score 229; DB 4; Le ilarity 34.8%; Pred. No. 1.4e-15; Conservative 33; Mismatches 51;
                                                                                                                                                                                    00253; INTERLEUKIN_1; UNKNOWN_1.
157 AA; 17702 MW; 7A54F3D7557A3EE3 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             67.6%; Score 688; DB 4; ilarity 100.0%; Pred. No. 1.2e-62; Conservative 0; Mismatches 0;
                                                                CDKDKGQSHPSLQLKKEKLMKLAAQKESARRPFIFYRAQVGSWNMLESAAHPGW 149
                                                                                          RDSRQMVWVLSGNSLIAAPLSRSIKPVTLHLIACRDTEFSDKEKGNMVYLGIKG
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(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 18, Last annotation update)
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                                                                                                                                                                                                                                                                                            IL-1 Superfamily.";
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Matches 51
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Q9UHA7;
Q1-MAY-2000
01-MAY-2000
01-DEC-2001
FIL1 epsilon
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Mammalia; Eutheria; F
NCBI_TaxID=9606;
[1]
  J. Bi
EMBL;
                                   [1]
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE=20092888; PubMed=10625660;
Smith D.E., Renshaw B.R., Ketchem
Sims J.E.;
"Four New Members Expand the IL-1
                                                                                                                                                           Eukaryota; Metazoa; Mammalia; Eutheria; NCBI_TaxID=9606;
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Q9NZH8;
Q1-OCT-2000
Q1-OCT-2000
Q1-DEC-2001
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"Identification and initial character
the interleukin-1 family.";
the interleukin-275:10308-10314(2000).
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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE=20209405; PubMed=10744718;
Kumar S., McDonnell P.C., Lehr R., Tierney
Kumar S., McDonnell P.C., Tal-Singer R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-OCT-2000 (TrEMBLrel.
01-OCT-2000 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
Interleukin-1 homolog 1
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 ol. Chem. :
AF201831;
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51; Conserva
Members Expand the IL-1
Them. 275:1169-1175(2000)
01831; AAF25211.1; -.
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Primates;
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38.3%;
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Primates;
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15, Last sequence update)
19, Last annotation update)
(Interleukin-l epsilon).
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                                                                                                                                                                                 Craniata; V Catarrhini;
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                                      Superfamily
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                                                                                                                                                                             Vertebrata;
; Hominidae;
                                                                             Kubin
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Homo.
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RESULT
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AC Q9
DT 01
DT 01
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GN M1
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ID Q8
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Q8R461;
Q1-JUN-2002
01-JUN-2002
01-JUN-2002
IL-1F8.
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Eukaryota;
Mammalia; E
NCBI_TaxID=
[1]
SEQUENCE FR
STRAIN=SWIS
Taylor S.L.
"Genomic Or
Genomics 0:
EMBL; AY071
SEQUENCE
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Pfam; PF00340; IL1; 1.
ProDom; PD002536; Interleukin_1; 1.
SMART; SM00125; IL1; 1.
SEQUENCE 158 AA; 17684 MW; 469A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ilus (Mouse).
i; Metazoa; Chordata; (
    Eutheria; Rodentia; (
D=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALA-SSLSSASAEKGSPILLGVS 88
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156 AA; 17775 MW;
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:0-0(2002).
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                                                                                                                                                                                                                                                                   129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19.6%; Score 199; DB 11; larity 33.3%; Pred. No. 1.6e-12; Conservative 27; Mismatches 53;
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21,
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Last sequence update)
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Q9D6Z6 PRELIMINARY
Q9D6Z6;
01-JUN-2001 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
2310043N20Rik protein.
2310043N20RIK.
Mus musculus (Mouse).

(TrEMBLrel. (TrEMBLrel. (TrEMBLrel.

17, 17, 19,

Created)
Last sequence update)
Last annotation update)

PRELIMINARY;

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RESULT 12
Q9QYY1
ID Q9QYY
AC Q9QYY
DT 01-MA
DT 01-MA
DT 01-DE
IL-1I
GN IL1F5
OS Mus m
OC Eukar
OC Mamma
OC Mamma
OX NCBI
RN [1]
RP SEQUE
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"Functional annotation of a full-length mouse cDNA collection."; Nature 409:685-690(2001).

"Functional annotation of a full-length mouse cDNA collection."; Nature 409:685-690(2001).

"Functional annotation of a full-length mouse cDNA collection."; Nature 409:685-690(2001).

"Foncorre 19002536; Interleukin_1: Inwknown 1

"Bornotarre 20002536; Interleukin_1: Inwknown 1

"Bornotarre 20002536; Interleukin_1: Inwknown 1
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Best Local S
Matches 42
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Q9QYY1;
01-MAY-2000
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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
Barton J.L., Nicklin M.J.H.;
Barton J.L., Nicklin M.J.H.;
"IL-1L1: A Novel Member of the Interleukin-1 Genbank/DDBJ
in Trophoblasts and Macrophages.";
                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10090;
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01-DEC-2001 (TrEMBLrel.
IL-1L1 protein (Interleventer)
IL1F5 OR IL1HY1.
                                                                                                                                                                                        Mus musculus
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Similarity 33.3%;
42; Conservative 2
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183 AA;
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D=10090;
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                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                         (Mouse)
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rEMBLrel. 13,
rEMBLrel. 19,
(Interleukin-
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53; INTERLEUKIN_1;
AA; 20878 MW; A3
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Rodentia;
                                                                                                                                                        Chordata;
Rodentia;
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, Last annotation
n-1 homolog 3).
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                                                                                                                                                    Craniata; Ver
Sciurognathi;
                                                                                                                                                                                                                                                                                                       PRT;
                                                                         Interleukin-1 Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; UNKNOWN_1.
A3ACE339FB96F02F
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Mismatches
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                                                                                                                                                       Vertebrata;
chi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB
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on update)
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                                          databases
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                                                                                                                                                                      Euteleostomi;
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                                                                                                                                                        Murinae;
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ProDom; sm001
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HSSP; P1851(
MGD; MGI:185
InterPro; II
Pfam; PF0034
                                                                                                                                                                                                                                                            Eukaryota;
Mammalia; E
NCBI_TaxID=
                                                                                                                                                                                                                                                                                                       1).
IL1F5 OR
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01-OCT-2000
01-OCT-2000
01-DEC-2001
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Kumar S., M
Griswold D.
                                                                      Kadota K., M
Fleischmann
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Submitted (
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SEQUENCE
                        Kuehl P.,
Schriml L.
Sakai K.,
Blake J.,
                                                                                                                                                                                                                  Debets R.,
Kastelein I
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                                                                                                                                          SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=TONGUE, AND STOMACH;
MEDLINE=21085660; PubMed=11217851;
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                                                                                                                                                                                                                                                                                                                                                                                                 Q9JIG2
                                                                                             Saito T.,
                                                                                                        Aizawa K.,
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               Brownst
                                                                                                                     Arakawa
                                                                                                                                  Kawai
                                                                                                                                                                                                                                       SEQUENCE
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BL; AJ250429; CAB59831.1; -.
BL; AF200495; AAF69251.1; -.
SP; P18510; 1ILR.
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interleukin-1 family.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ICTSCNCNEPVGVT 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QCLSC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FRMKD
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                                                                                                                 J.,
           J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y., a T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S., K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I., C., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R., K., Matsuda H.A., Ashburner M., Batalov S., Casavant T., mann W., Gaasterland T., Gissi C., King B., Kochiwa H., P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G., J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F., Eein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity 50; Conserv
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Okido T., run
Okido T., run
Boffelli D., Boj
W J., Bult C.,
N D., Ho
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Eutheria; Rodentia;
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IPR000975;
                                                                                                                                                                                                                  R.A.;
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                                                                                                                                                                                                                                       ROM N.A.
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800253;
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McDonnell P.C., Lehr R., Tierney L., Tzimas I
.E., Capper E.A., Tal-Singer R., Wells G.I.,
                                                                                                                                                                                                                                                                 =10090;
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                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
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[remblrel. 19, Last annotation update)
delta (Interleukin 1 receptor antagonist homolog
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; 17004 MW; A
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  Hofmann M.,
                                                                                                                                                                                                                              Zurawski S.,
                                                                                                                                                                                                                                                                                                                                                                         Created)
                                                                                                                                                                                                                                                                           Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A4B1770F2E12533A CRC64;
    Hume
                                                                                                                                                                                                                              Sana T.R.,
                                                                                                                                                                                                                                                                                                                                                                                                  156
                                                                                                                                                                                                                                                                                                                                                                                                 AA.
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                                                                                                               Itoh M., LL..
Fukuda
   Kamiya
                                                                                                                                                                                                                              Bazan
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"Functional annotation of a full-length of the foll-length of t
                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN-SWISS WEBSTER/NIH;
Taylor S.L., Renshaw B.R., Garka K.I
"Genomic Organization of the IL-1 L.
"Genomics 0:0-0(2002).
EMBL; AY071843; AAL67153:1; -.
SEQUENCE 164 AA; 18733 MW; A733
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Q8R460;
01-JUN-2002
01-JUN-2002
01-JUN-2002
IL-1F9.
IL1F9.
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ESLEQDKGIAIYLGIQNPDKCLFCKEVNG--
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Similarity 37.3%;
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P., Ring B., Ringwald M., Ro
., Sato K., Schoenbach C., S
., Toyo-oka K., Wang K.H., W
Boris A., Yoshida K., Hasega
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ) (Mouse).
Metazoa; Chordata; (
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Pred. No. 2.2e-10;
Mismatches 77;
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Sciurognathi;
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hi; Muridae;
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FIL1 delta
antagonist
IL1HY1 OR I
EMBL; AF20
EMBL; AJ24
EMBL; AJ24
EMBL; AJ27
EMBL; AF21
EMBL; AF21
EMBL; AF21
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EMBL; BC02
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InterPro;
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SEQUENCE FR
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Eukaryota;
Mammalia; E
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SEQUENCE FR
TISSUE=PLAC
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"Organizati
IL1HY1.";
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"Novel IL-
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                 itted (MAR-2002) to the E
AF201830; AAF25210.1;
AF186094; AAF02757.1;
AJ242737; CAB59822.1;
AJ242738; CAB59823.1;
AJ271338; CAB67704.1;
AF216693; AAF76981.1;
AF216693; AAF91274.1;
BC024747; AAH24747.1;
P18510; 1ILR.
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-1 ligands I
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; Metazoa; Chordata; (
Eutheria; Primates; (
D=9606;
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, Ford J.E.;
, Novel Interleukin-1 Receptor Antagonist
. Novel Res. Commun. 263:702-706(1999).
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443727; PubMed=10512743;
., Pace A.M., Nelken S.T.,
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092888; PubMed=10625660;
~~~~haw B.R., Ketchem R.R.,
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322477; PubMed=10866108;

., Nelken S.T., Ford J.E.;
ion of the Human Interleukin-1
          IPR000975;
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0 (TrEMBLrel. 13, Last sequence update)
1 (TrEMBLrel. 21, Last annotation update)
1 (Interleukin-1 like protein 1) (Interleukin-1 receptor homolog 1) (Interleukin 1, delta).
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) to the EMBL/GenBan
          Interleukin_1.
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L; Hominidae; Homo.
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SMART; SM00125; IL1; 1.

PROSITE; PS00253; INTERLEUKIN_1; UNKNOWN_1.

Receptor.

SEQUENCE 155 AA; 16962 MW; B96DB5EFA261
                                               138 WNMLESAAHPGWFICTSCNCNEPVGVTDKFEN 169
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108 TSSFESAAYPGWFLCTVPEADQPVRLTQLPEN 139
                                                                                                  34 FSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKG--
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